

CORNELL UNIVERSITY ANNOUNCEMENTS

EDUCATION

1962-1963

SCHOOL OF EDUCATION

ACADEMIC CALENDAR

1961-1962

Sept. 16	S	Freshman Orientation
Sept. 18	M	Registration, new students
Sept. 19	T	Registration, old students
Sept. 20	W	Instruction begins, 1 p.m.
Nov. 8	W	Midterm grades due
Thanksgiving recess:		
Nov. 22	W	Instruction suspended, 12:50 p.m.
Nov. 27	M	Instruction resumed, 8 a.m.
Christmas recess:		
Dec. 19	T	Instruction suspended, 10 p.m.
Jan. 3	W	Instruction resumed, 8 a.m.
Jan. 20	S	First-term instruction ends
Jan. 22	M	Second-term registration, old students
Jan. 23	T	Examinations begin
Jan. 31	W	Examinations end
Feb. 1-2, Th-F		Midyear recess
Feb. 3	S	Registration, new students
Feb. 5	M	Second-term instruction begins
Mar. 24	S	Midterm grades due
Spring recess:		
Mar. 24	S	Instruction suspended, 12:50 p.m.
Apr. 2	M	Instruction resumed, 8 a.m.
May 26	S	Instruction ends
May 28	M	Examinations begin
June 5	T	Examinations end
June 11	M	Commencement Day

1962-1963

(Tentative)

Sept. 15	S
Sept. 17	M
Sept. 18	T
Sept. 19	W
Nov. 7	W
Nov. 21	W
Nov. 26	M
Dec. 22	S
Jan. 7	M
Jan. 19	S
Jan. 21	M
Jan. 22	T
Jan. 30	W
Jan. 31-Feb. 1, Th-F	
Feb. 2	S
Feb. 4	M
Mar. 23	S
Mar. 23	S
Apr. 1	M
May 25	S
May 27	M
June 4	T
June 10	M

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CONTENTS

ACADEMIC CALENDAR.....	<i>Inside front cover</i>
FACULTY	4
THE SCHOOL.....	6
Housing	7
UNDERGRADUATE STUDY.....	8
Admission	8
Undergraduate Programs of Professional Preparation.....	8
Teachers of Academic Subjects.....	9
Teachers of Agriculture.....	10
Teachers of Home Economics.....	11
GRADUATE STUDY.....	13
Admission	13
Graduate Programs of Professional Preparation.....	14
General Degrees.....	14
Professional Degrees in Education.....	15
Visiting Fellows.....	22
Fees	22
Fellowships, Scholarships, and Assistantships.....	23
SPECIAL PROGRAMS AND SERVICES.....	26
Elementary Education.....	26
Educational Placement Bureau.....	26
Experimental Program for Secondary School Teachers.....	27
Educational Administration.....	27
Extramural Courses.....	28
Office of Field Services.....	28
Junior High School Project in Teacher and In-Service Education..	29
Southern Tier School Board Institute.....	30
The Summer Session.....	30
University Testing and Service Bureau.....	31
DESCRIPTION OF COURSES.....	32
Administration and Supervision.....	32
Agricultural Education.....	33
Educational Psychology and Measurement.....	34
Elementary Education.....	35
Extension, Adult, and Higher Education.....	36

General	37
Guidance and Personnel Administration.....	38
History and Theory of Education.....	38
Junior High School Program.....	39
Nature Study, Science Education, and Conservation Education....	39
Secondary Education.....	41
Home Economics Education.....	41
The Development of Human Resources.....	44
Interdepartmental Courses.....	45
INDEX	47
LIST OF ANNOUNCEMENTS.....	<i>Inside back cover</i>

FACULTY

As of December 1, 1961

- DEANE W. MALOTT, A.B., M.B.A., LL.D., D.C.S., President of the University.
SANFORD S. ATWOOD, B.A., M.A., Ph.D., Provost of the University.
FREDERICK H. STUTZ, Ph.D., Head of the Department of Rural Education and Dean of the School of Education.
HOWARD G. ANDRUS, Ph.D., Director, Educational-Vocational Guidance Office; Professor of Guidance and Personnel Administration.
JOE P. BAIL, Ph.D., Associate Professor and Instructional Materials Specialist in Agricultural Education.
ALFRED L. BALDWIN, Ph.D., Professor of Child Development and Family Relationships and Head of the Department.
FRANK C. BALDWIN, M.A., Secretary of the University.
SARA E. BLACKWELL, Ph.D., Professor of Home Economics Education, and Head of the Department.
MATTHEW H. BRUCE, JR., Ph.D., Assistant Professor of Educational Foundations.
ROBERT L. BRUCE, M.S., Assistant Professor of Extension Education.
RALPH N. CAMPBELL, M.B.A., Professor of Industrial and Labor Relations.
MARY MARGARET CARMICHAEL, Ph.D., Assistant Professor of Home Economics Education.
CORA B. CHASE, M.S., Professor of Rural Education (Home Economics Education), Emeritus.
ETHELWYN G. CORNELIUS, M.S. in Ed., Instructor in Home Economics Education.
BETTY W. COSBY, Ph.D., Assistant Dean of Students and Assistant Professor of Guidance and Personnel Administration.
K. PATRICIA CROSS, Ph.D., Dean of Students and Assistant Professor of Education.
HAROLD ROBERT CUSHMAN, Ph.D., Associate Professor of Agricultural Education.
WILLIAM E. DRAKE, M.S., Assistant Professor of Agricultural Education.
ARTHUR E. DUFFEE, Ph.D., Professor in Extension Service and Associate Director of Extension, and Professor of Extension Education.
MARGARET ELLIOTT, M.S., Instructor in Home Economics Education.
LYNN A. EMERSON, Ph.D., Professor of Industrial Education, Emeritus.
ROBERT H. ENNIS, Ph.D., Assistant Professor of Secondary Education.
JOSEPHINE C. ERNSTEIN, Supervisor of Practice Teaching in Modern Languages, Ithaca Public Schools.
JEAN FAILING, Ph.D., Professor of Home Economics and Coordinator of Resident Instruction, College of Home Economics.
RICHARD B. FISCHER, Ph.D., Associate Professor of Nature and Science Education.
FELICIAN F. FOLTMAN, Ph.D., Associate Professor of Industrial and Labor Relations.
HARRISON ADAM GEISELMANN, Ph.D., Lecturer in Secondary Education.
MARVIN D. GLOCK, Ph.D., Professor of Educational Psychology, and Director, University Testing and Service Bureau.
EVA L. GORDON, Ph.D., Professor of Rural Education (Nature Study), Emeritus.
D. BOB GOWIN, Ph.D., Assistant Professor of Educational Foundations.
ELOISE T. HADLOCK, M.S., Supervisor of Practice Teaching in Science, Ithaca Public Schools.
CHARLES W. HILL, Ph.D., Professor of Agricultural Education.
LAWRENCE B. HIXON, Ed.D., Associate Professor of Education.
EDWIN R. HOSKINS, Ph.D., Professor of Rural Education (Agricultural Education), Emeritus.
MARGARET HUTCHINS, Ph.D., Professor of Home Economics Education, Emeritus.
WILLIAM L. IRVINE, Ph.D., Associate Professor of Education, and Coordinator of Inter-University Project.
MAURITZ JOHNSON, JR., Ph.D., Professor of Secondary Education and Director, Junior High School Project.

- PHILIP G. JOHNSON, Ph.D., Professor of Nature and Science Education.
 PAUL J. KRUSE, Ph.D., Professor of Rural Education (Educational Psychology), Emeritus.
 CLAUDE L. KULP, M.A., Professor of Education, and Coordinator of Field Services.
 J. PAUL LEAGANS, Ph.D., Professor of Extension Education.
 WILLIAM T. LOWE, D.Ed., Assistant Professor of Secondary Education.
 DONALD J. MCCARTY, Ph.D., Associate Professor of Educational Administration.
 JASON MILLMAN, Ph.D., Assistant Professor of Educational Psychology and Measurement.
 OSCAR G. MINK, Ed.D., Assistant Professor of Secondary Education.
 CLYDE B. MOORE, Ph.D., Professor of Education, Emeritus.
 HELEN MOSER, M.A., Associate Professor of Home Economics Education.
 MARTHA NEIGHBOUR, M.A., Supervisor of Practice Teaching in Mathematics, Ithaca Public Schools.
 A. GORDON NELSON, Ph.D., Professor of Educational and Vocational Guidance.
 HELEN Y. NELSON, Ph.D., Associate Professor of Home Economics Education.
 VINCENT C. NUCCIO, M.Ed., Assistant Professor of Educational Administration and Director, Educational Placement Bureau.
 MILACENT G. OCVRK, M.A., Supervisor of Practice Teaching in English, Ithaca Public Schools.
 E. LAURENCE PALMER, Ph.D., Professor of Rural Education (Nature Study and Science Education), Emeritus.
 H. IRENE PATTERSON, M.S., Associate Professor of Home Economics Education.
 WALTER PAUK, Ph.D., Associate Professor of Education and Director of Reading-Study Center.
 ISABEL PEARD, Ph.D., Associate Professor of Education.
 CURTIS L. PFAFF, M.A., Supervisor of Practice Teaching in Social Studies, Ithaca Public Schools.
 KATHERINE M. REEVES, M.A., Professor of Child Development and Family Relationships.
 KATHLEEN RHODES, Ph.D., Associate Professor of Home Economics Education.
 RICHARD E. RIPPLE, Ph.D., Assistant Professor of Educational Psychology.
 VERNE N. ROCKCASTLE, Ph.D., Professor of Nature and Science Education.
 WILLIAM A. SMITH, Ph.D., Professor of Rural Education, and Director, Division of Summer Session and Extramural Courses.
 ROLLAND M. STEWART, Ph.D., Professor of Rural Education, Emeritus.
 FLORA M. THURSTON, M.A., Professor of Home Economics Education, Emeritus.
 FREDERICK K. T. TOM, Ph.D., Associate Professor of Agricultural Education.
 GORDON F. VARS, Ed.D., Associate Professor of Secondary Education.
 HELEN L. WARDEBERG, Ph.D., Associate Professor of Elementary Education and Supervision.
 ETHEL WARING, Ph.D., Professor of Child Development and Family Relationships, Emeritus.
 ANDREW LEON WINSOR, Ph.D., Professor of Rural Education, Emeritus.

THE SCHOOL OF EDUCATION

THE SCHOOL of Education at Cornell was established to provide opportunity for basic and advanced study and research in education. It is an organization through which the various colleges of the University cooperate to offer a balanced program of general and professional education for students who plan to serve in this field. Courses of study arranged in the School prepare students for positions as teachers in elementary schools, high schools, and colleges; school principals, superintendents, and supervisors; and guidance counselors; and for various opportunities in extension work and adult education. Advanced preparation is provided for positions in research and teaching in colleges and universities.

It is the purpose of the School of Education to direct the basic preparation of students so that maximum strength in the arts and sciences may be integrated with a broad understanding of human development, social processes, and professional work. As an integral part of a university rich in scientific, cultural, and professional programs, the School of Education provides unusual advantages. Furthermore, the selection policy of the School affords an intimate relationship of faculty and students and permits personal direction of individuals in terms of their background, abilities, and professional interests. In addition to the academic program on campus, students are given an opportunity to observe and teach under qualified supervisors in the schools of representative New York State communities, so that theory and practice are combined in their preparation.

Cornell University offers many advantages and opportunities for students preparing to teach. The students in education attend classes with all other students in the University; thus they have access to the strong subject matter courses and laboratories in the various colleges. They live in the dormitories and fraternities with students preparing for other professions and occupations and enjoy the social and educational stimulation that a large university provides.

The School has been authorized to act as agent for the State Department of Education in recommending its students for certificates to perform specified educational services in New York State, and it recommends such students to the proper educational authorities in other states for similar credentials. Candidates who have completed the appropriate programs at Cornell may be recommended for one or more of the following credentials: elementary school teacher, secondary school teacher, supervisor, principal or superintendent, school counselor.

Undergraduates may work toward teaching certification while meeting the degree requirements of their colleges. Students who desire to complete both certification and degree requirements in a minimum of time are advised to consult with official advisers in the School of Education as early as possible. The Educational Placement Bureau provides assistance in obtaining appropriate employment for each candidate who has completed a program of professional preparation.

HOUSING

MEN

Cornell University provides, on the campus, dormitory facilities for about 2100 men. Complete cafeteria and dining service is provided in Willard Straight Hall, the student union building which is situated between the dormitories and the academic buildings, in Noyes Lodge on the shore of Beebe Lake, and in Baker Cafeteria in the men's dormitory area. In addition, there is a cafeteria in Martha Van Rensselaer Hall, operated by the College of Home Economics, and there is one in Stocking Hall operated by the Dairy Industry Department. Male students are not required to live in dormitories and are individually responsible for making their own living and dining arrangements. As a matter of convenience for those who wish to live in dormitories, application forms will be mailed to each male candidate for admission as a freshman or a transfer student at the time of notification of provisional acceptance to the University. Housing in dormitories can be guaranteed for undergraduate men who have been admitted to the University and have filed dormitory applications by June 1.

Male graduate students may make application for dormitory housing directly to the Department of Residential Halls, Day Hall.

Off-campus housing may be obtained in private homes and rooming houses. The University, as a service to students, maintains a listing of available rooms and apartments. Inquiries should be addressed to the Off-Campus Housing Office, Day Hall.

WOMEN

The University provides dormitories for the housing of undergraduate and graduate women. These residence units are supplemented by fourteen sorority houses in areas close to the dormitories. With few exceptions all undergraduate women students are required, under University policy, to live and take their meals in a Residential Halls unit or a sorority house (for members only). Permission to live elsewhere in Ithaca is granted only under exceptional circumstances upon written application to the Office of the Dean of Students, Day Hall.

An application form for living accommodations for undergraduate women will be sent with the notice of provisional acceptance from the Office of Admissions to each candidate. Graduate women should make application for University dormitory housing directly to the Department of Residential Halls.

MARRIED STUDENTS

The University, through the Department of Residential Halls, maintains apartment accommodations for some of its married students and their families. These are Cornell Quarters, Pleasant Grove Apartments, and Hasbrouck Apartments, with total housing for about 400 families. All apartments are unfurnished. For further information and application, write the Department of Residential Halls, Room 223, Day Hall.

The Department of Residential Halls also maintains a list of available rental housing in the Ithaca area. Information on housing currently available can be obtained only at the Off-Campus Housing Office in Day Hall, Room 223. Lists cannot be sent out as changes occur daily.

UNDERGRADUATE STUDY

ADMISSION

A STUDENT planning to apply for admission to one of the undergraduate colleges should write to the Director of Admissions, Edmund Ezra Day Hall, Ithaca, N.Y., indicating the college in which he wishes to matriculate. A candidate for admission as a freshman in an undergraduate college must satisfactorily complete secondary school subjects carrying a value of a sufficient number of entrance units. The subjects in which these units may be offered, the number of units that may be credited in each subject, and the units required in specific subjects by the several divisions of the University, together with other general information about admission requirements and costs at Cornell, are described in the *Announcement of General Information*. Persons outside the campus may obtain any Cornell Announcements by writing to the Announcements Office, Day Hall. An enrolled student should inquire for Announcements in the administrative office of his own college or school at Cornell.

Information pertaining to veterans, health services and medical care, ownership of cars, and requirements in physical education is also contained in the *Announcement of General Information*. Information on military training at Cornell is available in the *Announcement of Military Training*.

A student pursuing the undergraduate program will pay the tuition and fees of the college in which he is matriculated as a candidate for the Bachelor's degree. See the *Announcement of General Information*.

The University maintains a placement service in the Office of Financial Aids, Day Hall, for handling requests for part-time employment. Opportunities arise for normal types of student employment.

UNDERGRADUATE PROGRAMS OF PROFESSIONAL PREPARATION

The requirements for teaching certificates vary considerably throughout the country. A student preparing to teach should not assume that the completion of the requirements for a degree at Cornell, including courses in education, automatically qualifies him for a teaching certificate in the locality in which he plans to teach. Special requirements of the state or city in which the student expects to teach should be a guide in planning a teacher education program. Questions concerning these requirements should be referred to the student's adviser in education.

Observation and directed teaching for academic teachers and elementary school teachers are conducted in selected schools of Ithaca and near-by communities. Student teaching also will be done in off-campus schools, selected primarily to provide better than average opportunity for experience and growth.

Some students in science and all students engaged in student teaching in home economics or apprentice teaching in vocational agriculture will live in the school community during the period of this experience and will be expected to participate in community life.

In most cases the student will be assigned to a regular college adviser upon entrance. In order that the prospective teacher may secure advice regarding his professional program, he should, as early as possible in his University experience, consult with the official adviser in his teaching field. A list of these advisers is given on page 9.

As the student proceeds in his preparation for teaching, appraisal will be made of the development of his abilities, understandings, and appreciations, and of such other qualities as make for success in teaching. Special determinations as to the fitness of the candidate to continue will be made prior to the period of student teaching in the senior year. Committees responsible for the selection in the several fields will be concerned with the personal and physical fitness of the candidate, his emotional and intellectual equipment, his general and special academic competence, his familiarity with current affairs, and his ability to use the English language.

Knowledge of the student gained by his advisers and his instructors, supplemented by the health record and the more formal measures such as psychological and personality tests, will provide information useful in judging the strictly personal factors involved. In general, each student will be expected to maintain a standing in scholarship at least equal to the average of his college. A steady growth in the use of English will be expected of each student. Standards of accomplishment will be set up for the several groups of prospective teachers, beginning in the freshman year, and checked at frequent intervals throughout the period of preparation.

These requirements and standards may be supplemented by additional requirements in the several fields in order to ensure a high degree of competence at all levels and to meet the special demands in different areas of teaching. Students entering the program later than the sophomore year will be expected to meet the standards and requirements indicated above and may find it necessary to remain for an additional term or summer session.

Students planning to teach should consult these official advisers:

Academic Subjects except Science: Mr. L. B. Hixon, 112 Stone Hall.

Agriculture: Mr. William Drake, sophomores; Mr. F. K. Tom, freshmen and seniors; Mr. H. R. Cushman, juniors; Stone Hall.

Elementary Education: Miss Helen Wardeberg, 110 Stone Hall.

Home Economics: Miss Helen Moser, East Wing 4, Van Rensselaer Hall.

Science: Messrs. P. G. Johnson, V. N. Rockcastle, R. B. Fischer, and M. H. Bruce, Jr., 3 Stone Hall.

TEACHERS OF ACADEMIC SUBJECTS

A prospective teacher of academic subjects must meet the graduation requirements of the college in which he is registered. For full information consult the appropriate college Announcement.

To teach an academic subject in the public high schools, the prospective teacher must complete considerable course work in the area to be taught and

10 SCHOOL OF EDUCATION

must also fulfill certain minimum education course requirements as prescribed by the state or locality in which certification is desired.

Effective September 1, 1963, new New York State certification requirements for teaching academic subjects will take effect. Early in his college career a prospective teacher should make an appointment with the official School of Education adviser to determine the correct program to be followed.

PROVISIONAL CERTIFICATION, NEW YORK STATE

The provisional certificate received upon completion of a program qualifies the prospective teacher to obtain a teaching position. The certificate is valid for five years and must be replaced by a permanent certificate by the end of the period.

PERMANENT CERTIFICATION, NEW YORK STATE

Thirty graduate hours are required for permanent certification. A Master's degree will meet this requirement if it includes the necessary credit hours in general education, teaching field, and professional education. Information concerning graduate degree programs will be found on page 14 of this announcement.

TEACHERS OF AGRICULTURE

GRADUATION REQUIREMENTS OF THE COLLEGE OF AGRICULTURE

Students preparing to teach in the field of vocational agriculture will register in the New York State College of Agriculture and must meet the requirements of that College for graduation. The College of Agriculture requires the completion of the following program of courses: orientation, 1 hour; English, 6 hours; botany, biology, or zoology, 6 hours; chemistry and/or physics (not required if taken in high school), 6 or 12 hours; geology, 3 hours; basic sciences and social studies, and humanities, 24 hours; electives in the College of Agriculture, 54 hours; general electives, 20 hours.

TECHNICAL STUDIES IN AGRICULTURE AND RELATED SCIENCES

In the certification requirements for the preparation of prospective teachers through the New York State College of Agriculture, a total of 36 semester hours in technical courses must be taken in accordance with the following:

	<i>Semester hours Minimum</i>
Agricultural economics including farm management	6
Agricultural mechanics including field machinery, farm power, and welding	12
Dairy herd management and livestock feeding	6
Farm crops including field crops	6
Soil science	3
Dairy science	3

In addition to courses listed above, fifty semester hours in agriculture and science courses must be taken. The student may obtain detailed information relative to these courses from an adviser in agricultural education.

PROFESSIONAL COURSES

The prospective teacher of vocational agriculture must complete a minimum of eighteen semester hours in accordance with the following:

	<i>Semester hours</i>
	<i>Range</i>
Practice teaching under supervision including conferences on teaching problems	4-8
Teaching methods and materials in agriculture	4-8
Psychology for teachers	2-6
History, philosophy, problems and/or principles of education	2-6

GENERAL ELECTIVES

The prospective teacher will find opportunity to select such courses from agriculture, science, or other University offerings as will contribute further to his preparation for teaching.

TEACHERS OF HOME ECONOMICS

GRADUATION REQUIREMENTS OF THE COLLEGE OF HOME ECONOMICS

Students preparing to teach home economics or do extension work in this field will register in the New York State College of Home Economics and must meet the requirements of that College for graduation. Detailed information may be secured from the *Announcement of the College of Home Economics*.

TEACHERS IN THE SECONDARY SCHOOLS

Students in the College who have satisfactorily completed the graduation requirements and who have followed a recommended curriculum in teacher education are eligible for a ten-year provisional certificate to teach homemaking in the secondary schools in New York State. Thirty semester hours of post-Bachelor study are required for eligibility for permanent certification.

EXTENSION WORKERS

SUBJECT MATTER RECOMMENDATIONS AND SUGGESTIONS FOR EXTENSION WORKERS . . . It is recommended that students preparing for extension work have general training in homemaking and courses in sociology, psychology, economics, and education.

To assist the students in meeting these recommendations, a suggested plan is set up for the use of students and their counselors. This plan provides for courses as indicated to meet graduation requirements, recommended courses of

special interest for extension workers, and elective courses which will further contribute to the students' preparation for extension service.

SUGGESTED EXPERIENCE . . . A student preparing to do extension work should plan her college program and her experiences during the summer to provide opportunity to work with individuals and groups, to observe and study communities and the significant situations and problems to which home economics applies. Summer experience in the extension service program is recommended whenever possible. Opportunities for volunteer work can be provided between freshman-sophomore, sophomore-junior years by the extension service. Summer assistant positions with compensation are provided between junior and senior years.

Practice in public speaking, radio, newspaper writing, and discussion with a variety of groups and organizations will be valuable.

GRADUATE STUDY

ADMISSION

ADMISSION to study in the Graduate School is granted to graduates of approved colleges whose personalities, experience, and records provide evidence of ability to succeed in the various fields for which the school provides preparation. Members of the faculty examine carefully the application of each individual and make recommendations to the Graduate School relative to his fitness as a candidate. Every student seeking admission to the Graduate School must be admitted by the required procedures before he registers in any course. Final admission rests with the Dean of the Graduate School.

An applicant for admission may become a candidate for a general degree (Ph.D., M.A., or M.S.) or for a professional degree (Ed.D., M.Ed., or M.A.T.).

Status of Students. Every applicant accepted by the Graduate School is admitted in one of the following categories: (1) candidate for an advanced degree, either general or professional; (2) provisional candidate; (3) noncandidate.

Any student wishing to change from one category to another, or from candidacy for one degree to candidacy for another, must secure approval from the Office of the Graduate School.

Both provisional candidates and noncandidates will work under the supervision of a committee chosen by them and approved by the Dean. Not later than two weeks after registration, they must present to the Dean for approval a *Statement of Courses*, on the usual forms. When a quota system is in effect, they must be approved for places in the allotment, term by term.

Provisional candidates expect to take degrees eventually but for some reason are not accepted as candidates immediately. A change in status from *Provisional* to candidacy must be recommended by the supervising committee and the Field Representative. A provisional candidate for the doctoral degree will not be admitted to candidacy until he has satisfactorily completed a formal examination, written or oral or both.

Upon recommendation of the *provisional candidate's* committee and with the Dean's approval, he may reregister once in provisional status. When admitted to candidacy, he may petition for transfer of a maximum of one residence unit, provided there is sufficient evidence that his work has been of the same quantity and quality as would be required of a candidate. For doctoral candidates the examination completed to gain change from provisional status to candidacy may, at the discretion of the Special Committee, be counted as a part of the Qualifying Examination. (See Qualifying Examination, page 21.)

Noncandidates have announced no intention of working toward an advanced degree, but wish special advanced training. The Graduate School will admit a limited number if facilities warrant and proper directors for the work desired may be found. Except with the permission of the General Committee, a student may

register in this status only twice. Upon recommendation of the student's Supervising Committee and with the approval of the Dean, a maximum of one residence unit may be transferred to candidacy. A member of the University faculty may register as a noncandidate, but may not thereafter, under any circumstances, receive residence credit for any time during which he was so registered.

Application. An application for admission should be made on the proper form, which will be supplied at the Office of the Graduate School, 125 Day Hall. No application will be acted upon until all the credentials enumerated in this form have been filed. For admission in the fall term, the application should be filed before March 1; for admission in the Summer Session, between March 15 and May 1. Though an application may be filed at any time, the officers cannot give assurance that the application will receive the same consideration that it would receive if filed during those periods.

All applicants, including graduates of Cornell University, must submit complete official transcripts of all previous college courses.

To be admitted to the Graduate School an applicant (1) must have received his baccalaureate degree from a college or university of recognized standing or have done work equivalent to that required for such degree; (2) must show promise of ability to pursue advanced study and research satisfactorily as judged by his previous scholastic record, or otherwise, and (3) must have had adequate previous preparation in his chosen field of study to enter at once upon graduate study in that field.

GRADUATE PROGRAMS OF PROFESSIONAL PREPARATION

FIELDS OF STUDY FOR GRADUATE STUDENTS

To meet the requirements of the Graduate School, candidates for advanced degrees must select a major or minor field of work or a field of concentration. Approved fields for majors in the School of Education are:

Agricultural Education
Educational Administration and
Supervision
Educational Psychology and
Measurement
Elementary Education
Extension and Adult Education

Guidance and Personnel Administration
History and Theory of Education
Home Economics Education
Development of Human Resources
Nature, Science, and Conservation
Education
Secondary Education

Candidates for advanced degrees in education are expected to include preparation in fields which supplement the field of professional education.

GENERAL DEGREES

Students with appropriate qualifications who are primarily interested in scholarly research may apply to the Graduate School for admission to candidacy for the degrees of Master of Arts, Master of Science, or Doctor of Philosophy.

Also, a special division of the Graduate School administers the professional degree of Master of Science for Teachers. Requirements for these degrees are fully described in the *Announcement of the Graduate School*. Students who are candidates for any one of these degrees may either major or minor in one of the several areas of education. There is an entrance examination for majors in education (see below).

All candidates for these general degrees must register both in the Graduate School and with the Registrar of the University at the beginning of each term or session.

PROFESSIONAL DEGREES IN EDUCATION

Advanced professional degrees in education are designed as preparation for the professions in education. The admissions processes, requirements, and curricula for such degrees, as approved by the Graduate faculty, are announced and administered by the faculty of the School of Education, which is a division of the Graduate School. Degrees are awarded upon recommendation of the School of Education to the Graduate faculty.

Three professional degrees, Master of Education, Master of Arts for Teachers, and Doctor of Education, are awarded. The Master of Education degree is planned for those who desire to complete a minimum of a year of preparation for teaching beyond a Bachelor's degree, or for the preparation of specialists in education. The Master of Arts for Teachers degree emphasizes the subject matter of a teaching field chosen from English, speech, mathematics, the social studies, and languages. The Doctor of Education degree is offered for those preparing for positions of leadership in education. The program leading to each of these degrees includes such courses, seminars, projects, and investigations of an advanced or graduate nature as will develop ability to perform acceptably the professional duties required of the several types of educational workers.

ENTRANCE EXAMINATION

All applicants for candidacy for the Ed.D. degree, residing in the United States or Canada, whose native language is English, are expected to have scores submitted from the Miller Analogies Test or the Graduate Record Examinations (the Aptitude Test and the Advanced Test in Education). This requirement applies also to applicants for candidacy for the Ph.D. degree with a major in the Field of Education. Applicants for candidacy for the M.Ed. or M.A.T. degrees and those for the M.A. or M.S. degrees with a major in the Field of Education may be asked to meet this requirement before admission. All candidates, however, who are admitted without meeting this requirement and whose native language is English, will be administered the Miller Analogies Test within three weeks after registration for the first unit of residence, at a time and place to be announced by the University Testing and Service Bureau.

An applicant who needs information concerning the location of a center

where he may conveniently go for testing, should write to the Dean of the School of Education.

REGISTRATION

Candidates registering for a professional degree (M.Ed., M.A.T., or Ed.D.) must register in the Graduate School and with the Registrar of the University. On official registration days this registration takes place at Barton Hall. Preceding the fall term, the Registrar notifies all students of the hour at which they are to report; if a graduate student does not receive notification at least a week before registration day, he should communicate with the Graduate School. Registration must be made in person. If a student cannot register at the appointed hour he should report at the appropriate office at the earliest time thereafter, bringing an endorsement signed by his adviser or chairman. A fee of \$5 is required of matriculated students for late registration.

A registered student who for any reason discontinues his work during a term should report that fact immediately to the School of Education and to the Graduate School to obtain an official withdrawal and any refund of tuition and fees to which he may be entitled.

The student is responsible for fulfilling all requirements for degrees, as indicated in the Announcements.

RESIDENCE

Each candidate for an advanced degree is expected to complete his residence with reasonable continuity. Under any circumstances, a candidate who fails to register during any period of four or more years may continue only after the General Committee of the Graduate School has stipulated the amount of additional residence to be required. The Committee will be guided in its decision by an estimate, written by the candidate's Special Committee, of the period of study necessary to recover lost ground. No more than ten years may intervene between the time of first registration and the completion of all requirements for the degree.

Residence may be earned in various combinations of:

- (1) Regular terms of full-or part-time residence during the academic year—1, $\frac{3}{4}$, or $\frac{1}{2}$ residence units.
- (2) Six-week summer sessions— $\frac{2}{5}$ residence unit for not less than 6 credit hours.
- (3) Three-week summer periods or extramural work on or off-campus—recorded in blocks of not less than 6 hours ($\frac{2}{5}$ residence unit).

Credit earned through three-week summer session periods *is not* transferable in fulfillment of residence requirements for the general degrees of M.A., M.S., and Ph.D., nor for the Ed.D. degree beyond residence earned in candidacy for the M.Ed. degree.

THE DEGREE OF MASTER OF EDUCATION

The program for the degree of Master of Education (M.Ed.) is designed for those preparing for teaching or other comparable professional positions.

ADMISSION TO CANDIDACY

To be admitted for this degree an applicant must hold a Bachelor's degree from an institution of recognized standing, give evidence of ability necessary for successful progress in graduate study, and show a sincere interest in the profession.

RESIDENCE

For the M.Ed. degree a minimum of two residence units is required, which may be earned as follows:

1. Regular terms of full-time or part-time registration in the Graduate School during the academic year.
2. Six-week Summer Sessions ($\frac{2}{5}$ unit for each Session of full-time registration for no less than 6 credit hours).
3. Three-week Summer Sessions units (two such units equal one six-week Summer Session).
4. Extramural registration on and/or off the campus ($\frac{2}{5}$ unit for each six credit hours). Not more than three such blocks of credit will be counted. The remaining residence may be earned by any one of the methods in 1, 2 or 3, or in combinations of such.

SPECIAL COMMITTEE

A candidate selects a Special Committee of two or more members from the Graduate faculty, one of whom will serve as chairman and represent the field of education. Other members of the Committee are to be selected with the advice of the chairman to give adequate representation of the candidate's program. The program must have the approval of all members of his Committee.

PROGRAM OF STUDIES

Within two weeks after registration for the first unit of residence a candidate shall meet with his entire Committee to plan a program of studies. The program, designed to develop professional competence, must include a minimum of thirty hours of credit in courses and seminars. Courses in *educational psychology* and in the *history or philosophy of education* shall be required of the candidate who has not previously completed such courses.

The candidate is required to have completed in candidacy or elsewhere the courses and the directed participation in the art of teaching appropriate to the field of professional service for which he is preparing.

The remainder of the candidate's program shall include courses in a teaching field or such other courses as will give unity and breadth to the program.

ESSAY

A candidate for the M.Ed. degree must complete an essay which is acceptable to his Committee. Two copies of this essay, suitably bound, must be filed with the School of Education for transfer to the Mann Library. Regulations regarding the preparation of the essay are the same as those prescribed by the Graduate School for theses.

FINAL EXAMINATION

For the M.Ed. degree a candidate must pass a final examination conducted by the Special Committee. The examination, to be both written and oral, shall be comprehensive in nature and designed to evaluate the candidate's proficiency in the theory and practice of education.

THE DEGREE OF MASTER OF ARTS FOR TEACHERS

The program for the degree of Master of Arts for Teachers (M.A.T.) is designed for persons provisionally certified to teach, having had either student teaching or full time teaching experience, who wish to add to their qualifications in the teaching subject of their choice.

ADMISSION TO CANDIDACY

To be admitted for this degree an applicant must hold a Bachelor's degree from an institution of recognized standing, hold at least a provisional secondary school certificate to teach in the field or fields in which the program is desired, give evidence of ability necessary for successful progress in graduate study, show a sincere interest in the teaching profession, and give evidence of ability to teach effectively.

RESIDENCE

Three units of residence or their equivalent are required. No less than two academic terms of full time residence at Cornell are permitted. The remaining unit of residence may be earned in summers, through extramural registration, or through transfer of credit for advanced study at Cornell or elsewhere.

SPECIAL COMMITTEE

The candidate will select or be assigned to a special committee of two or more members of the Graduate Faculty, one of whom will represent the Field of Education. The chairman of the committee will represent the field of major subject matter concentration. Additional members may be selected with the advice of the chairman to give adequate representation of the candidate's program. All members of the committee shall approve the program and recommend advanced standing, if any.

PROGRAM OF STUDIES

The program of studies is to include courses in the teaching subject area(s) appropriate for permanent certification, including a seminar on teaching in the major subject.

The fields of subject matter concentration are the social sciences, English language and literature, speech and drama, mathematics, foreign languages, and literature.

FINAL EXAMINATION

The candidate must satisfy his committee, through final examination or other means acceptable to the committee, of his knowledge of the content of his teaching field(s) and his understanding of the art of teaching this subject matter content.

THE DEGREE OF DOCTOR OF EDUCATION

The program for the degree of Doctor of Education (Ed.D.) is designed to prepare the candidate for a position of leadership in the educational profession.

ADMISSION TO CANDIDACY

A candidate for the Ed.D. degree must be a graduate of an approved college and must have completed a minimum of three years of successful experience appropriate to his proposed field of professional service.

The applicant must show evidence, based on previous training, of scholastic ability and other qualifications necessary for successful progress in graduate study, field study, and professional work.

RESIDENCE

In fulfillment of the requirements for the Ed.D. degree, a minimum of five units of residence is required beyond the Bachelor's degree, of which at least three units must be earned in residence at Cornell. Two units of residence beyond the Master's degree or its equivalent must be earned at Cornell in regular terms, consecutive except on petition. Any remaining residence units must be earned in regular terms, in summer sessions, extramurally, or by registration for Summer Research.

All requirements for the degree must be completed within four years after the minimum residence requirement has been satisfied. For a description of the several combinations in which residence may be earned, see page 16.

In addition to meeting residence requirements, a candidate must complete successfully one year of participation in Directed Field Study as described in subsequent statements.

SPECIAL COMMITTEE

A candidate selects a Special Committee of at least three members from the Graduate faculty, one of whom will serve as chairman and will represent the candidate's field of professional service. Other members of the Committee are to be selected, with the advice of the chairman, to give adequate representation of the candidate's program. The program must have the approval of all members of the Committee.

PROGRAM OF STUDIES

Within a period of two weeks after registration for the first unit of residence, the candidate shall meet with his entire Committee to plan a program of studies.

The program, designed to develop competence in a field of professional service and in the general field of education, must include a minimum of sixty-five credit hours in courses and seminars beyond the Bachelor's degree, of which thirty-five hours shall be completed beyond the Master's degree or its equivalent.

The candidate will be expected to prepare himself in courses and seminars representing a field of professional service. Fields are described in terms of professional positions for which preparation is offered. Approved fields of professional service for the Ed.D. degree are as follows: administrator, coordinator, curriculum specialist, extension specialist, student service specialist, supervisor, teacher.

The program of studies must include advanced work in each of these fields: *educational psychology, history and philosophy of education, educational measurement and statistics, research in education*. At least fifteen hours of credit must be earned in courses other than those in professional education.

The transfer of credit in institutions other than Cornell University must be recommended by the Special Committee and approved by the Dean of the Graduate School.

DIRECTED FIELD STUDY

In keeping with the primary emphasis in the program for the Ed.D. degree, a minimum of one year of full-time experience appropriate to the candidate's field of professional service is required. This period of participation, to be known as Directed Field Study, will follow completion of a minimum of two units of residence at Cornell beyond the Master's degree or its equivalent. (Residence requirements are described on page 19.)

The opportunity for the field experience is to be sought by the candidate with the advice and assistance of the Special Committee, and the proposed plan for experience must be approved by the Committee. The opportunity sought must afford those practical experiences which the candidate and his Committee have identified as being needed in acquiring competence in the field of professional service for which the degree program has been designed. (Fields of professional service are identified on page 20.)

In advance of the period of Field Study, the candidate will plan with his Committee, and with his supervisor or employer or both, for the kind and extent of experience to be obtained. Such planning will include a description of means by which the experience is to be obtained, supervised, and reported.

The Special Committee will require the following records and reports of the candidate: (1) an outline or listing of the experiences as agreed upon, in advance of the Field Study, by the candidate, the Committee, and the supervisor; (2) a periodic reporting by the candidate of activities engaged in or experiences obtained; (3) a statement of appraisal by the supervisor of the candidate's performance in obtaining experiences and of the values gained; (4) a final written report by the candidate which shall include an evaluation of experiences. The report of the supervisor and the candidate's written evaluation shall become part of the records indicative of completion of degree requirements.

Successful completion of the Directed Field Study is prerequisite to recommendation of the candidate for the degree.

THESIS

For the Ed.D. degree the candidate is required to present a thesis which will give evidence of the ability to apply knowledge to a professional problem. The thesis must satisfy the Special Committee in respect to both professional proficiency and literary quality. Regulations concerning preparation and publication of theses shall be those prescribed by the Graduate School. Two unbound copies of the thesis must be filed in the Office of the Graduate School. The faculty requires the publication of abstracts and the microfilming of doctoral theses through University Microfilms, Inc.

EXAMINATIONS

Three examinations are required for the degree: (1) an entrance examination; (2) a qualifying examination; (3) a final examination. Although other members of the faculty may be invited to participate in these examinations, the Special Committee alone decides whether the candidate has passed or failed.

ENTRANCE EXAMINATION

An applicant for admission to candidacy for the degree must submit to the School of Education his scores on certain tests specified as comprising the entrance examination. (See page 15 for specific details.) The Special Committee will use examination results in planning a program of studies with the candidate.

QUALIFYING EXAMINATION

A candidate for the degree is required to pass a qualifying examination, to be both written and oral, and to be given before or during the third unit of residence. This examination has the double purpose of determining the ability of the candidate to pursue further studies and of allowing the Special Committee and the candidate to plan together a satisfactory program for completion of candidacy.

FINAL EXAMINATION

For the Ed.D. degree, a candidate is required to pass a final examination given by the Special Committee and other members of the faculty who may be invited to attend. The examination must be given in two parts—one part on the field of professional service and core studies in education (Examination A), which may be taken at the end of the fourth unit of residence; the second part, on the thesis (Examination B), is taken after the thesis is approved by the Special Committee. Examination A may be written or oral or both. Examinations A and B may precede or follow the period of directed Field Study.

Examinations A and B are scheduled with the approval of the Special Committee. The scheduling of Examination A is to be announced to the faculty. At least one member of the Committee on Professional Degrees, or another member of the faculty designated by the Committee, shall attend Examination A.

FACILITIES FOR VISITING FELLOWS

The faculty welcomes mature scholars who wish to use the facilities of the University to prosecute investigations or to work with the faculty in the advancement of knowledge. A scientist or scholar who wishes to work on the campus may, upon recommendation of the department in which he wishes to work and endorsement of the dean of the college or school, be given the title of Visiting Fellow by the President, providing he has no formal duties to perform and is paid no salary by the University.

FEES PAYABLE BY GRADUATE STUDENTS

A registration deposit of \$28 must be made by every applicant for admission after the applicant has received notice of acceptance, unless the candidate has previously matriculated as a student at Cornell University. This deposit is used at the time of first registration to pay the matriculation fee, chest X-ray, and examination-book charge, and covers certain expenses incident to graduation if the student receives a degree. The deposit will not be refunded to any candidate who withdraws his application after May 22 or within 20 days of his admission approval.

Tuition of \$150 a term is to be paid by all students registered in the Graduate School with major concentration in subjects within the state-supported divisions* of the University; all others must pay tuition of \$620 a term. Tuition is payable, in the Treasurer's office, Day Hall, at the beginning of each term.

Upon recommendation by the appropriate dean and by action of the Board of Trustees, for each appointment in a state-supported school or college, waiver of tuition in the Graduate School may be made to a member of the teaching or scientific staff whose major field of study is in a state-supported school or college, if the rate of annual salary is less than \$3000.

The word salary as used means total pay, that is, base pay plus any bonus.

Graduate assistants on the nine- or twelve-month basis who reside here during the summer, who are registered for Summer Research for credit in the Graduate School, and who are required to give service in their department or division during that period, may be recommended for waiver of tuition during the summer period under the above limitations. This waiver of tuition does not apply if the student registers in the Summer Session. Those who are engaged only in graduate study and not doing productive work for the department during the summer may not have their tuition waived. The amount of tuition to which the above percentages will be applied is the prorated amount of the full tuition fee based upon the maximum amount of residence units that can be earned.

A regularly appointed member of the teaching or scientific staff registered in the Graduate School, whose appointment does not carry free tuition, shall pay tuition at the rate of three-quarters of the tuition regularly charged full-time students, unless arrangements have been made in advance with the Dean of the Graduate School whereby such student is to receive less than three-quarters of full residence credit because of his appointment, in which case the student may apply to the Treasurer for proration of tuition on the basis of the maximum residence credit that may be earned.

* The state-supported divisions are Agriculture, Home Economics, Industrial & Labor Relations, and Veterinary Medicine.

A candidate for the Ph.D. or Ed.D. degree whose studies have been satisfactory to the faculty is exempt from the further payment of tuition upon presenting to the Treasurer at the beginning of each term a certification from the Dean of the Graduate School that the minimum residence requirement for the degree has been completed.

A College and University Fee of \$130 a term, payable at the beginning of each term, is required of all students registered in the Graduate School. This general fee contributes toward the services supplied by the libraries, Clinic and Infirmary, and the student union in Willard Straight Hall, and pays a portion of the extra cost of laboratory courses and general administration.

A graduate student who returns to the University to present his thesis and to take the final examination for an advanced degree, all other work for that degree having been previously completed, shall register as a "candidate for degree only" and shall pay a fee of \$35.

A Nonresident Fee of \$50 a year will be charged by the Graduate School to each student who takes a leave of absence or fails to register for the next academic term. Candidates who complete all degree requirements within one year of their leave of absence will be exempted from the \$50 fee.

A Thesis Fee of \$30 is required of each doctoral candidate at the time of depositing the approved thesis and abstract in final form. This fee covers the cost of preparing a master microfilm of the entire thesis; of publishing the abstract in the bimonthly periodical, *Dissertation Abstracts*; of mailing the thesis and abstract to and from the microfilm publisher; and of binding both copies of the thesis for deposit in the University Library.

GRADUATE FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS

Information concerning fellowships and scholarships open to candidates in all fields may be found in the *Announcement of the Graduate School*. Financial assistance available to selected students in the School of Education is indicated below.

Holders of fellowships and scholarships pursue a full-time course of study and are usually not required to render services to the University; whereas students who are awarded graduate assistantships ordinarily spend twenty hours a week helping with instruction, research, or extension work. Assistants are eligible for residence units in candidacy according to regulations of the Graduate faculty. Assistantships usually extend over a period of twelve months. Many include a waiver of tuition, besides the stipend shown.

Requests for application forms and additional information concerning any of the opportunities listed below should be addressed to the Dean of the School of Education, Stone Hall, Cornell University. Completed applications must be received by March 1. Announcement is made by April 15.

ASSISTANTSHIPS

Stipends for assistantships vary in amount from \$2000 to \$2800, with appointments ranging from nine to twelve months. In the College of Agriculture and the College of Home Economics, tuition is waived for assistantships having stipends of less than \$3000. Tuition is not waived in other assistantships. Twenty-two graduate assistantships (exclusive of resident assistantships in University dormitories) are offered as follows:

*AGRICULTURAL EDUCATION** . . . Preference given to candidates for the doctorate in agricultural education.

*EDUCATIONAL FOUNDATIONS** . . . Open to candidates for the doctorate who are capable of assisting with instruction in the introductory course in social foundations of education.

*EDUCATIONAL PSYCHOLOGY** . . . Open to qualified candidates for the Ph.D. in educational psychology who are capable of assisting with instruction in the introductory educational psychology courses.

GENERAL PSYCHOLOGY† . . . Open to qualified Ph.D. candidates who are capable of assisting with instruction in introductory general psychology.

ELEMENTARY EDUCATION . . . Open to persons qualified to assist with the preparation of elementary school teachers.

*HOME ECONOMICS EDUCATION** . . . *Teaching, Research, and Counseling Service Assistantships.* Available to experienced high school or college teachers of home economics with background in home economics. (For complete description, see *Announcement of College of Home Economics.*)

COUNSELING . . . Open to persons interested in college counseling, admissions, orientation, placement. Desirable background: child development and family relationships; general home economics, education, psychology. Attached to Counseling Service, College of Home Economics.

*JUNIOR HIGH SCHOOL PROJECT** . . . *Assistantships.* Open to persons qualified to assist with the project in junior high school teacher and in-service education. Supported by the Ford Foundation.

*SCIENCE EDUCATION** . . . For majors in science teaching, nature study, or conservation education.

SECONDARY EDUCATION . . . *Secondary School Teacher Education Assistantship.* Open to a person with a Master's degree and high school teaching experience, to assist in the supervision of student teaching, counseling with student teachers, and seminar discussion.

TESTING SERVICE BUREAU . . . Open to doctoral candidates who are qualified to assist in testing programs.

* Tuition in the Graduate School is waived.

† Tuition is waived if degree is taken in the state-supported division.

*GENERAL TEACHING** . . . Open to candidates for the doctorate who are enrolled in the Department of Rural Education.

*COLLEGE READING AND STUDY SKILLS CENTER ASSISTANTSHIP** . . . For a doctoral student who desires to learn the principles of developmental reading and study skills. Teaching experience at the college level is gained by teaching college reading and study skills to small sections of selected Cornell students.

RESIDENT ASSISTANTSHIPS IN UNIVERSITY DORMITORIES . . . (forty total). Thirty available to single men and women and married men majoring in any area. Ten restricted to graduate students whose major interest is student personnel administration. Stipend includes room, board, and/or tuition waiver.

FELLOWSHIPS AND SCHOLARSHIPS

EDUCATIONAL ADMINISTRATION . . . *Julian E. Butterworth Award*. Given for outstanding research in the administration of public schools in rural areas (as defined in New York State): \$200.

SCIENCE EDUCATION . . . *Anna B. Comstock Scholarship*. Available to graduate students in nature study: \$150 plus tuition.

E. Lawrence Palmer Scholarship. Awarded annually to a graduate student who, through interest and activity, has demonstrated promise in the field of conservation education: \$50.

EDWARD A. SHELDON SCHOLARSHIP FOR WOMEN . . . For a qualified woman who is preparing to teach and who needs this assistance: \$120.

Completed applications must be received by March 1. Appointments will be announced by April 15.

JUNIOR HIGH SCHOOL INTERNSHIPS . . . Open to those completing or having completed an undergraduate program with a major in English, the social sciences, mathematics or sciences, and planning to combine work toward the Master's degree with preparation for junior high school teaching: \$1500 each.

Completed applications must be received by June 1. Appointments will be announced by July 1. (See Special Programs and Services, page 29.)

FOUR-UNIVERSITY TEACHER EDUCATION INTERNSHIPS . . . To be awarded to undergraduates and fifth year students selected for internships in high school teaching as part of the four-university projects.

* Tuition in the Graduate School is waived.

SPECIAL PROGRAMS AND SERVICES

ELEMENTARY EDUCATION

THE PREPARATION of elementary school teachers is offered only at the graduate level in a fifth year of professional work for those who have a baccalaureate degree from an approved college and who now wish to enter the teaching profession. Students completing this program are eligible for certification to teach in the elementary school, kindergarten through the sixth grade, common branch subjects, in New York State and in most other states. It is also possible to complete the requirements for the Master of Education degree at this time. The major concentration of subjects is within the state-supported colleges; limited tuition scholarships are available to selected, well-qualified candidates.

Men and women who have the essential qualifications for graduate work and for elementary teaching may apply for admission. Further information may be obtained from Professor H. Wardeberg, 110 Stone Hall.

EDUCATIONAL PLACEMENT BUREAU

The Bureau is the central office of permanent record and placement for qualified Cornellians from *all* departments of the University who wish to secure professional positions in elementary schools, secondary schools, or colleges. With the Bureau's assistance, Cornellians are regularly placed as teachers, guidance counselors, student personnel workers, supervisors, school administrators, and research workers. Requests are received throughout the year from public schools, private schools, junior colleges, technical institutes, colleges, and universities. On the college level the Bureau's contacts are nation-wide.

Services provided include a permanent file of credentials, available throughout each registrant's professional career, and up-to-date information concerning current positions, salary ranges, certification requirements in each state, and placement trends and demands. Detailed information pertaining to all accredited colleges, universities, junior colleges, and private schools in the country is available for reference.

All Cornellians qualified and interested in school or college positions are invited to register with this office well in advance of the completion of their training. Credentials containing comprehensive information as to the personal and educational qualifications and experience of each registrant are compiled in conformity with standards established by the National Institutional Teacher Placement Association. With the cooperation of the registrant, this record is kept up to date at all times and is available to any educational institution or qualified official upon request. Heads of departments and professors are invited to use this service in placing their graduates.

The Bureau is located at 320 Wait Avenue, Cornell University.

EXPERIMENTAL PROGRAM FOR THE PREPARATION OF SECONDARY SCHOOL TEACHERS

Cornell University, in cooperation with the Universities of Buffalo, Rochester, and Syracuse, is undertaking an experimental program in the preparation of secondary school teachers. A group of students in the junior, senior, and fifth years will be selected on the basis of scholastic ability and potential for teaching to receive a new kind of professional training. For these students, formal courses in education will be replaced by independent study, tutorial and honors work, or blocked studies. Emphasis will be given to self-study, a close relation of professional studies with allied disciplines, the waiving of unnecessary requirements, and the introduction of maximum rigor and vitality in the professional training. Following the study of education, students will be placed as interns in teaching centers located in selected school systems in the vicinity of the four university campuses. It is expected that the new programs of training will meet certification requirements for New York State secondary school teaching.

During 1962-1963, Cornell will carry on programs for selected groups of students wishing to prepare themselves for secondary school teaching of English, home economics, and agriculture. Cornell undergraduates interested in applying for the program in one of these fields should contact School of Education advisers in English, home economics, and agriculture teaching, or Professor Mauritz Johnson, Jr., Coordinator of the Project, 104 Stone Hall.

The teacher education projects are supported by a grant from the Ford Foundation to the four universities. Financial aid to students in the programs will be available in the form of stipends for the internship experience.

For further details of the teacher-training, research, and in-service instructional features of this project, interested persons can contact Professor Johnson or Dean F. H. Stutz, 101 Stone Hall.

Professor William L. Irvine, coordinator for the four universities, can be contacted in Room 201 at 320 Wait Avenue.

PROGRAM FOR STUDY AND DEMONSTRATION OF THE INTERNSHIP IN EDUCATIONAL ADMINISTRATION

Cornell University, in cooperation with the universities of Buffalo, Rochester, and Syracuse, is undertaking a six-year program for the study and demonstration of the internship in educational administration. Selected doctoral candidates in educational administration from each university will be offered a special program of summer study, and assigned as interns in administration in selected school systems in New York State. During the internship period the student will be fully employed in the school system, will be given a variety of experiences under supervision, and will receive a salary. The four universities will undertake jointly studies of the several aspects of administrative training including the internship experience.

Students interested in Cornell's administrative internship program are asked to contact Professor D. J. McCarty, Coordinator of the Project, at Room 204, 320 Wait Avenue, or Dean F. H. Stutz, 101 Stone Hall.

The administrative intern program is supported by a grant from the Ford Foundation to the four universities. Professor William L. Irvine, in Room 201 at 320 Wait Avenue, is coordinator for the four universities.

EXTRAMURAL COURSES

Courses are available throughout the Division of Summer Session and Extramural Courses to students interested in part-time study. These include the regularly scheduled on-campus offerings for students who can commute to the campus as well as courses in off-campus centers located to suit the convenience of a sufficient number of students to warrant the offering. Graduate credit may be earned in these courses. The credit is recorded in the Registrar's Office just as for full-time students. A candidate for an advanced degree in Cornell University may have such credit applied toward requirements for the degree on recommendation of his Special Committee. Candidates for degrees in other institutions should be guided by the regulations in those institutions.

Residence credit toward advanced degrees in Cornell University may be earned through extramural registration as follows:

1. At the discretion of the student's Special Committee, fifteen credit hours of graduate study earned on campus and/or in off-campus centers may be accepted as one residence unit in fulfillment of the requirements for the Master's degree. For the M.Ed. degree the maximum number of hours is 18, equivalent to one and one-fifth residence units. Two residence units may be earned in this manner by candidates for the doctorate.
2. Credit hours may be accumulated to make a block of six hours or the equivalent of two-fifths of a residence unit, the smallest fraction that will be recorded by the Graduate School toward fulfillment of the residence requirement for a degree. When a full unit of residence credit is earned through extramural registration, the last three of the fifteen required hours also will be recorded.
3. The manner of satisfying the remainder of the residence requirement for a degree varies according to the degree. Students should consult the statement of residence requirements for the particular degree in question.

Students who wish to register extramurally should apply for information to the Director of the Division of Summer Session and Extramural Courses, 117 Day Hall.

OFFICE OF FIELD SERVICES

An Office of Field Services has been established by Cornell University in its School of Education. This office is designed to assist interested public and independent schools in studies of their current problems and to develop both short- and long-range programs for their solution.

This new office coordinates and facilitates the services which individuals and groups within the faculty can offer to the schools of the state. In recent years the staff of the School of Education has received an increasing volume of requests for services from schools throughout the state. Staff members have accepted some

of these invitations but could not accept all because of other off-campus commitments and because of the absence of a person to initiate and coordinate field services. The new Office of Field Services provides a full-time coordinator who acts as a liaison person between school systems requesting assistance and the faculty of the School of Education. He visits school districts on invitation, explains the Cornell services, negotiates agreements or contracts, provides services himself, and arranges for the services of members of the Cornell staff or, when necessary, consultants from other institutions or agencies. On-campus courses and graduate studies benefit from the information and experience gained in field studies.

A conference, on campus, for interested school board members and administrators may be arranged, without fee, for discussion with faculty members of studies in which a school district may be interested. If the district prefers, the Coordinator of Field Services will visit the school district for a preliminary explanation and discussion of services, problems, and recommended studies.

Further information may be obtained from:

Claude L. Kulp
Coordinator of Field Services
320 Wait Avenue, Cornell University
Ithaca, New York
Telephone: Area Code 607, AR 5-2307

JUNIOR HIGH SCHOOL PROJECT IN TEACHER AND IN-SERVICE EDUCATION, 1960-1967

Cornell University, through its School of Education, is engaged in a special project, financed by a grant from the Ford Foundation, which will make it possible for thirty-two graduates of liberal arts colleges to prepare for junior high school teaching during a fifth year of study and internship. During the 1961-1962 year each student accepted in the program will be awarded a stipend sufficient to cover tuition costs and fees and to provide \$1000 toward living costs.

Students will be admitted on the basis of the scope and quality of their undergraduate education, their strength in the subject proposed for teaching, and their interest in and aptitude for teaching in secondary schools. The program will provide the opportunity to prepare for teaching while earning a Master's degree. The four junior high school subjects for which preparation will be made are English, social studies, mathematics, and science. Students may carry a program of graduate study in education and the teaching subject during the fall semester, serve as full time interns in the junior high schools of the region during the spring term, and return to campus for a summer term of study and preparation of a thesis, or they may begin with a summer session, teach in the fall, and engage in full time study the following spring.

A number of school systems in the region will cooperate with Cornell University in this venture, accepting interns, and working with the University staff in teacher education, curriculum and teaching innovations, and research projects. It is the hope of the project to bring together in teacher education the resources

of Cornell's departments in education and the subject fields with staffs from the neighboring public schools.

Students will be admitted to the project each year through 1966, and up to thirty-two students may be awarded stipends each year. It is hoped that undergraduate students throughout the country will apply for admission to the program each year. Further information may be obtained by writing to Director, Junior High School Project, School of Education, 105 Stone Hall, Cornell University, Ithaca, New York.

SOUTHERN TIER SCHOOL BOARD INSTITUTE

The School of Education of Cornell University, in cooperation with the New York State School Boards Association and local school boards in the Southern Tier counties of New York State, sponsors an annual series of institute meetings.

The four dinner meetings and sessions are held on the Cornell campus and are open to all members of the boards of education which belong to the institute, to members of their district administrative staffs, and to their guests. The topics for these meetings are selected by the participating board members. Outstanding speakers, panel discussions, and other techniques are utilized in presenting the selected topics for each meeting. Small group discussions follow the initial presentation. Each meeting concludes with a series of questions formulated by the several discussion groups and directed to the speakers of the evening.

Membership in the institute is open to all boards of education in the Southern Tier counties of New York State. To defray program costs and other expenses, a membership fee is charged which is based on the size of the school system. The institute is guided, in part, by a steering committee of school board members. Two issues of a newsletter are prepared for the membership each year.

For several years the institute has contributed to the support of a graduate assistantship in the School of Education. A member of the faculty serves as the coordinator of the institute and is assisted by the graduate student. Further information may be obtained from the School of Education.

SUMMER SESSION

The Summer Session, through its Summer School and other sessions, offers academic instruction for both graduates and undergraduates by members of the faculties of the Graduate School, of the Colleges of Arts and Sciences, Engineering, Architecture, Agriculture, and Home Economics, and of the Schools of Education, Industrial and Labor Relations, and Hotel Administration.

This unification of the curricula and faculties of the several schools and colleges makes possible the adaptation of academic work to the special needs of summer students. Undergraduate courses are equivalent to required and elective collegiate courses leading to the baccalaureate. Advanced courses, seminars, and informal study, treating topics of concern to students with special interests, are available. The needs of teachers are met not only in the workshops, seminars, and professional courses in education, but also in departmental courses. A number of unit programs and special courses are offered for professional workers other than teachers.

All necessary facilities of the University are available to students registered in the Summer Session: libraries, classrooms, and laboratories; residence halls, dining rooms, and cafeterias; health services and medical care; counseling services; student union, chapel, playing fields, and recreational areas.

The Summer Session's purpose is to place the facilities of the University at the disposal of persons who can use them to good advantage and for serious purposes during the summer period.

The *Announcement of the Summer School* and application forms for admission are available from the Director of the Summer Session, 117 Day Hall. A student planning to become a candidate for an advanced degree from Cornell University should apply for admission not only to the Director of the Summer Session but also to the Dean of the Graduate School.

Registration for the six-week Summer School in 1962 will take place June 27, and classes will begin June 28, extending through August 10.

UNIVERSITY TESTING AND SERVICE BUREAU

The Bureau is designed to assist with research related to a variety of educational problems. These may be in such areas as curriculum planning, testing and evaluation, administration and supervision, personnel management, youth adjustment and counseling. Assistance is also given in the solution of statistical problems and in the development and scoring of tests. These services are available to colleges, to departments of the University, and to public schools. A nominal fee is charged the public schools for the scoring of tests.

The Bureau maintains an educational and vocational testing service for Cornell students referred by the Educational-Vocational Guidance Office, by the counselors of the colleges and schools, or by the Dean of Students.

Numerous national tests are administered, such as the Miller Analogies Test, Minnesota Engineering Analogies Test, Graduate Record Examination, Admission Test for Graduate Study in Business, and National Teacher Examinations. This service is especially helpful to individuals who seek admission to universities that require such test scores, but departments of the University may also make use of this service for research in cooperation with the testing agency.

The Bureau administers the language examinations for the Graduate School of the University three times a year and is responsible for the freshman placement examinations each fall.

Other services include the maintenance of teaching aids for use by the staff in the preparation of teachers, an extensive library of psychological and educational tests, and a small selected library of technical books dealing with research in education and psychology. There are many opportunities for graduate students in education to obtain practical experience in the various activities of the Bureau as part of their programs of study. Arrangements for this are made through the Director of the Bureau and the student's advisory committee.

DESCRIPTION OF COURSES

ADMINISTRATION AND SUPERVISION

R.E. 219. PERSONNEL ADMINISTRATION IN EDUCATIONAL INSTITUTIONS. Fall term. Credit three hours. Open to graduate students in education. Th 4-6 and one hour to be arranged. Mr. McCARTY.

The methods and principles of recruitment, selection, placement, maintenance, organization, and government of staff and employees are analyzed.

R.E. 243. PRINCIPLES AND PROCEDURES IN SUPERVISION. Spring term. Credit three hours. M W F 11. Miss WARDEBERG.

A basic course in the nature and scope of supervision; fundamental principles and various procedures will be considered. Open to those already in supervisory positions, either in school work or elsewhere, and experienced persons aspiring to become supervisors.

R.E. 261. THEORY AND PRACTICE OF ADMINISTRATION. Fall term. Credit two or four hours. S 9-10:30, 11-12:30. Mr. McCARTY.

A basic course in the theory and processes common to a variety of administrative positions both within the school system and elsewhere. Both the science and the art of administration are examined. Theory is employed in group analysis of case studies. Those preparing for the position of supervisor, principal, or superintendent should enroll for four credits; others may take the first session for two credits.

[R.E. 262. THE SECONDARY SCHOOL PRINCIPALSHIP. Spring term. Credit two hours. Given in alternate years. Mr. McCARTY.]
Not given in 1962-1963.

The responsibilities of the secondary school principal within the school building. Special attention will be given to the problems of the six-year high school.

R.E. 263. ELEMENTARY SCHOOL PRINCIPALSHIP. Spring term. Credit two hours. M 4-6. Given in alternate years. Mr. McCARTY.
Systematic treatment and discussion of problems of administration of staff, pupils, finances and plant; deals with the responsibilities of the principal in his role as elementary school administrator.

R.E. 264. SCHOOL FINANCE AND FACILITIES. Spring term. Credit three hours. Prerequisite, 261 or equivalent. T 4:15-5:45, and one hour to be arranged. Mr. NUCCIO.

Typical problems: How local school funds are levied, collected, and disbursed; budget making; bonding; state funds and their distribution; planning, utilization, and upkeep of school facilities.

Educ. 267. SCHOOL LAW FOR ADMINISTRATORS AND TEACHERS. Fall term. Credit three hours. W 4-6 and one hour to be arranged. Mr. HIXON.

A study of school law with particular emphasis on New York State legislation, court decisions, opinions, and regulations which affect the schools of the state.

Educ. 268. SEMINAR IN EDUCATIONAL ADMINISTRATION. Spring term. Credit two hours. M 4-5:30. Mr. KULP.

Planned for students or teachers who have made some preparation for service as administrators. Major areas of administrative responsibility which will be stressed are: instructional leadership, the board of education, general planning of school program, financial administration, personnel administration, school-planning management, public relations, pupil services supplementary to instruction, administrative staffing. Educational theory and the school administrator will be reviewed. The seminar will utilize as many real administration problems as possible, selected from recent school surveys and current literature.

AGRICULTURAL EDUCATION

R.E. 131. INTRODUCTION TO TEACHING VOCATIONAL AGRICULTURE. Spring term. Credit one hour. Required of juniors and others entering the directed teaching program in the senior or following year. M 2-4:30. Mr. CUSHMAN.

An introduction to the origin, development, objectives, course of study, individual farming programs, and method of teaching vocational agriculture in central schools.

R.E. 132. METHODS, MATERIALS, AND DIRECTED PRACTICE IN TEACHING VOCATIONAL AGRICULTURE IN THE SECONDARY SCHOOL. Fall term. Credit nine hours. Mr. HILL, Mr. DRAKE, and staff in agricultural education.

Directed participation in off-campus centers in the specific and related problems of teaching prevocational and vocational agriculture on the junior and senior high school levels, to include adjustment in the school and community; evaluation of area resources, materials of instruction, and school facilities; organization and development of local courses of study; launching and directing supervised farming programs; planning for and teaching all-day classes; advising Future Farmers chapters; and other problems relating to development of a balanced program for vocational education in agriculture in a local area.

R.E. 133. SPECIAL PROBLEMS IN VOCATIONAL AGRICULTURE. Fall or spring term. Credit one or two hours. Graduate and undergraduate. W 1-1:50. Mr. TOM and staff.

The purpose is to provide students an opportunity to study individually or as a group selected problems in vocational agriculture to meet the particular needs of the students.

R.E. 134. ORGANIZATION AND DIRECTION OF YOUNG FARMER PROGRAMS.

Fall term. Credit two hours for graduate section and three hours for undergraduate section. F 3:45-5:45. Mr. CUSHMAN and Mr. BAIL.

Emphasis will be placed on solving the problems encountered by teachers of agriculture in such phases of the young farmer program as making arrangements to have a program, determining instructional needs and planning programs of instruction, teaching young farmers in groups, giving individual on-farm instruction, organizing and advising the local young farmer association, and evaluating the young farmer program.

R.E. 230. SEMINAR IN AGRICULTURAL EDUCATION. Spring term. Credit one hour. W 4:15-6. Mr. CUSHMAN.

Recommended for Master's degree candidates who have had teaching experience and doctoral candidates with majors and minors in agricultural education. The seminar will be primarily centered in current problems and research in the field not included in other course work.

[R.E. 231. SUPERVISION IN VOCATIONAL AGRICULTURE. Fall term. Credit two hours. Given in alternate years. Open to students with experience in teaching vocational agriculture, or by permission. Mr. BAIL.] Not given in 1962-1963.

The function of supervision, program planning and supervisory techniques as applied to state programs in vocational agriculture.

R.E. 232. ADVANCED METHODS AND MATERIALS OF TEACHING VOCATIONAL AGRICULTURE. Fall term. Credit two or three hours. M F 2-3:30. Mr. TOM.

Consideration is given to an analysis of selected teaching techniques and to the selection, preparation, and use of instructional materials in vocational agriculture.

R.E. 233. PLANNING COURSES OF STUDY AND FARMING PROGRAMS IN VOCATIONAL AGRICULTURE. Spring term. Credit two or three hours. M F 2-3:30. Mr. DRAKE.

Guiding principles, objectives, and sources of information will be developed for planning the courses of study and teaching calendar. Consideration will be given to principles, meaning, and function of farming programs and how they are planned and used as a means of instruction.

R.E. 235. PLANNING AND CONDUCTING PROGRAMS OF TEACHER PREPARATION IN AGRICULTURE. Fall term. Credit two hours. Offered in alternate years. M 3:45-5:45. Mr. HILL.

Open to persons with teaching experience in vocational agriculture who are preparing for or engaged in the preparation of teachers or in related educational service.

[R.E. 236. THE ORGANIZATION AND ADMINISTRATION OF VOCATIONAL AGRICULTURE.]

CULTURE. Spring term. Credit two hours. Given in alternate years. Mr. CUSHMAN.] Not given in 1962-1963.

Designed for teachers, high school principals, teacher trainers, supervisors, and others who are responsible for the administration of vocational agriculture programs or who wish to qualify for this responsibility. Emphasis will be placed on interpreting the vocational acts and on problems of administration at the local and state level.

[**R.E. 239. TEACHING GENERAL AGRICULTURE IN THE SECONDARY SCHOOL.** Spring term. Credit two hours. Mr. TOM.] Not given in 1962-1963.

EDUCATIONAL PSYCHOLOGY AND MEASUREMENT

R.E. 10. PSYCHOLOGY. Fall or spring term. Credit three hours. Recommended for freshmen and sophomores only. May not be taken for credit by students who have had Psychology 101 or equivalent. Two lectures plus one discussion section each week. Lectures M W 10. Plant Science 233. Discussion sections Th 8, 9, 10, 11, F 8, 9, 10, 11, 12. Mr. MINK.

A study of topics in psychology such as learning, perception, motivation, emotion, individual differences, and personal-social relationships.

Psych. 103. EDUCATIONAL PSYCHOLOGY. Spring term. Credit three hours. M W F 10. Prerequisite, an introductory course in psychology. Mr. ZIMMERMAN. (Equivalent of R.E. 111.)

The major facts and principles of psychology bearing on educational practice and theory.

R.E. 111. EDUCATIONAL PSYCHOLOGY. Fall or spring term. Credit three hours. Prerequisite, an introductory course in psychology. Open to juniors or seniors; preference given to those who have had practice teaching. Not open to freshmen or to those who have taken R.E. 117 or Child Development and Family Relationships 315. Course designed for prospective teachers or others preparing for educational careers. Lectures, M W F 9. Mr. GLOCK. (Equivalent of Psych. 103.)

Consideration of the outstanding facts and principles of psychology bearing upon classroom problems.

R.E. 117. PSYCHOLOGY OF ADOLESCENCE. Spring term. Credit two hours. De-

The organization, purpose, and content of courses in agriculture in junior and senior high schools to serve those who elect to study agriculture for its general educational values in preparation for rural living.

R.E. 339. EVALUATING PROGRAMS OF VOCATIONAL AGRICULTURE. Spring term. Credit two hours. T 2-4. Given in alternate years. Open to students with experience in teaching vocational agriculture or by permission. Mr. DRAKE.

Students will study objectives and evaluative criteria and develop criteria and procedures for evaluation of programs of agricultural education in the secondary schools.

signed for teachers and prospective teachers; others only by permission of instructor. Not open to freshmen or sophomores. Prerequisite, a course in general psychology. T 4-6. Mr. RIPPLE.

A survey of the nature of adolescent growth and development, with emphasis on some of the causal factors pertaining to adolescent behavior.

R.E. 211. EDUCATIONAL PSYCHOLOGY. Fall term. Credit three hours. Permission of the instructor required. M W F 11-12:30. Mr. GLOCK.

For mature students with teaching experience. Special emphasis will be given to the topic of learning, and its relationship to the teacher's problems.

R.E. 216. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION. Fall term. Credit three hours. T Th F 9. Mr. MINK. Open only to fifth year students in the School of Education.

Consideration is given to those psychological factors that relate to the learning process.

R.E. 251. EDUCATIONAL MEASUREMENT. Spring term. Credit three hours. Permission of the instructor required. Mr. MILLMAN.

A study of the construction of achievement tests and the use of aptitude tests, achievement tests, and other measuring instruments in the classification and guidance of pupils and improvement of instruction.

R.E. 253. INTRODUCTION TO EDUCATIONAL STATISTICS. Fall term. Credit three hours. T Th 8:30-10. Mr. MILLMAN.

A study of common statistical procedures encountered in educational literature and research. Includes the computation and interpretation of descriptive measures and tests of significance.

R.E. 254. STATISTICAL INSTRUMENTS IN EDUCATION. Spring term. Credit three hours. Prerequisite, R.E. 253 or permission of the instructor. T Th 8:30-10. Mr. MILLMAN.

A study of the multiple regression, factor analysis, analysis of variance and covariance and other statistical procedures useful in educational research.

Educ. 255. USE AND INTERPRETATION OF TESTS IN GUIDANCE AND PERSONNEL ADMINISTRATION. Fall term. Credit three hours. Open to students in guidance or personnel administration, and to classroom teachers who expect to work with standardized objective tests. Th 4-6. Mr. ANDRUS.

The historical development, use, and interpretation of group aptitude tests as a basis for guidance and selection.

Psych. 351. PSYCHOLOGICAL TESTS I. (Tests of intelligence and specific aptitudes.) Fall term. Credit three hours. Not open to sophomores. Primarily for seniors and graduate students. Juniors must obtain consent of instructor. Prerequisite, 6 hours in psychology and a course in statistics, or consent of the instructor. T Th S 11. Mr. ———.

Basic psychological and statistical principles in the construction and use of individual and group tests of intelligence and specific aptitudes; theories of the nature of mental abilities; fields of application; intensive study of selected scales.

Psych. 352. PSYCHOLOGICAL TESTS II. (Tests of personality and of social behavior.) Spring term. Credit three hours. Prerequisite, Psych. 351 or equivalent, and

consent of the instructor. Primarily for seniors and graduate students. T Th S 11. Mr. ———.

Basic psychological principles in the construction and use of personality rating scales, personality inventories, projective techniques, and situational tests. Several selected instruments are studied intensively.

Psych. 410. INDIVIDUAL DIFFERENCES. Fall term. Credit three hours. Prerequisite, Psych. 351 or equivalent, or consent of instructor. T Th 2-4 and third hour to be arranged. Mr. ———.

The nature and causes of variations in human abilities; their educational and social implications. Especial study of the characteristics of the mentally retarded and the mentally superior groups.

Psych. 411. PROCEDURES IN CLINICAL PSYCHOLOGY. Spring term. Credit three hours. Prerequisite, Psych. 351 or its equivalent. Primarily for seniors and graduate students. All students must have consent of the instructor. M 2-4 and conferences to be arranged. Mr. ———.

Procedures and instruments used with clinical cases involving problems of learning and behavioral adjustment.

Psych. 413. PRACTICUM AND SEMINAR IN PSYCHOLOGICAL TESTING. Either term. Credit three hours. Prerequisite, Psychology 351 or 352, or equivalent. For graduate students. All students must have consent of the instructor. Limited enrollment. Hours to be arranged. Mr. ———.

Practice in administering and interpreting individual tests of intelligence or of personality, including projective techniques. Each student is required to concentrate upon a single instrument in a given semester. Seminars to be arranged.

H.E. Ed. 458. EVALUATION. Fall term. Credit three hours. M Th 1-2:30. Van Rensselaer East Wing 5. Mrs. NELSON. (See page 43 for description.)

ELEMENTARY EDUCATION

R.E. 107. THE TEACHING OF ELEMENTARY SCHOOL SCIENCE. Fall term. Credit three hours. Registration by permission. W 2-5:30. Stone 7. Mr. ROCKCASTLE. (See page 00 for description.)

R.E. 240. THE ART OF TEACHING. Spring term. Credit twelve hours. M F 8-4 and other

hours to be arranged. Students may register only with the consent of the instructor. Miss WARDEBERG.

For students enrolled in the fifth year program in elementary education. Students will be placed in elementary classrooms in Ithaca and surrounding communities for directed student teaching.

R.E. 247. SEMINAR IN ELEMENTARY EDUCATION. Fall term. Credit four hours. T Th 10:30-12:00. Spring term. Credit three hours. Times and room to be arranged. Miss WARDEBERG.

Fall term includes: September experience (beginning September 4, 1962); materials and methods in mathematics, social studies and special curricular areas; organization of the elementary school. Spring term includes: a problems seminar based on the student teach-

ing experience. For students enrolled in the Art of Teaching.

R.E. 313. TEACHING READING AND THE LANGUAGE SKILLS. Fall term. Credit three hours. M W 2:30-4. Miss WARDEBERG.

Materials and techniques in effective teaching of the language arts in the elementary school; special emphasis on the teaching of reading. Open only to graduate students.

EXTENSION, ADULT, AND HIGHER EDUCATION

R.E. 212. EDUCATIONAL PSYCHOLOGY FOR EXTENSION AND OTHER RURAL DEVELOPMENT WORKERS. Fall term. Credit three hours. M W 2-3:30. Mr. ———.

Designed for advanced students in extension education and administration.

R.E. 223. SEMINAR: ORGANIZATION, ADMINISTRATION AND SUPERVISION IN THE COOPERATIVE EXTENSION SERVICE. Fall term. Credit two hours. For graduate students majoring or minoring in extension education and others interested in broadening their knowledge of Extension Service as an educational institution. W 2-3:30. Mr. ———.

Study and discussion includes an analysis of current policy, objectives, organization, staffing, financing, program content, procedures and the over-all role of extension service in relation to current developments and trends affecting its operation.

R.E. 224. PROGRAM BUILDING IN EXTENSION EDUCATION. Fall term. Credit two hours. T 2-3:30. For graduate students in extension education and others interested in adult education. Mr. LEAGANS.

A study of the basic problems, principles, and procedures in the process of extension program building in both agriculture and home-making.

R.E. 225. TEACHING AND COMMUNICATION IN EXTENSION EDUCATION. Spring term. Credit two hours. For graduate students in extension education and related fields who are concerned with teaching people in out-of-school situations. T 2-3:30. Mr. LEAGANS.

The principles and processes of extension teaching and communication are analyzed and related to the problems of selecting, combining and effectively using extension teaching methods for disseminating useful information and promoting its use.

R.E. 227. SEMINAR: COMPARATIVE EXTENSION EDUCATION. Fall and spring terms. Credit two hours each term. F 2-4. Mr. LEAGANS and staff.

The development of extension education in different cultures, in different circumstances of economic, political, and social development, and in different agricultural resource environments. The central objective is to help students develop a philosophy, a background of knowledge, and professional skill that will enable them to initiate, organize, and administer training programs for extension workers in other countries, and for foreign students and visitors to land-grant colleges and other U.S. agencies.

R.E. 228. ADVANCED SEMINAR IN EXTENSION EDUCATION. Spring term. Credit two hours. Open only to graduate students with experience in extension education. W 2-3:30. Mr. LEAGANS.

Professional problems that are currently of major concern in the Extension Service will be selected for close study. Problems may be drawn from such fields as administration, supervision, personnel recruitment and training, scope of programs, integration, the unit approach, etc. Selections will be made in the light of special interest of the seminar members.

[R.E. 321. SPECIAL STUDIES IN EXTENSION EDUCATION. Fall term. Credit two hours. Offered only if 8 or more students enroll. Lectures, individual time to be arranged. Mr. LEAGANS.] Not offered in 1962-1963.

The objective is to provide assistance in thesis preparation to graduate students in extension education. The course will consist of three parts: (1) exploration of potential fields and specific delineation of the thesis area; (2) setting up a plan of thesis organization based on research techniques and methods, including establishment of objectives or hypotheses,

preparation of questionnaires, or other research instruments, the collection, analysis, and interpretation of data in line with the objectives; and (3) preparation of the thesis, its writing, editing, revising, and styling.

GENERAL

Educ. 7. COLLEGE READING AND STUDY SKILLS PROGRAM. Either term. Noncredit. Prerequisite, all students are required to take the Cooperative Reading Test at times to be announced. Fall term, M W 9, 10, 11, 12; or T Th 9, 10, 11, 12. Spring term, M W 9, 10, 11, 12; or T Th 9, 10, 11. Laboratory, two half-hour periods a week to be arranged. Fall program is reserved for selected freshmen. Spring program is open to all registered students. Enrollment limited. Place to be announced. Mr. PAUK.

Principles and techniques for reading and studying more effectively are explained, demonstrated, and practiced in class. The reading laboratory provides an opportunity for increasing one's rate of reading.

R.E. 199. INFORMAL STUDY IN EDUCATION. Maximum credit, three hours each term. Members of the staff.

This privilege is granted to a qualified student of junior rank or above, when approved by his adviser from the education staff who is personally responsible for the study.

R.E. 214. COLLEGE TEACHING. Spring term. Without credit. M 7-9 p.m. Mr. McCARTY and members of the University staff. Designed for those who plan to teach in colleges and universities. Methods of teaching, organization of subject matter, motivation, learning, testing, grading, and similar problems are treated.

R.E. 270. SEMINAR IN EDUCATION. Spring term. Credit one hour. Th 4-5:30. Conference Room, Stone. Messrs. ENNIS, HIXON, STUTZ, and McCARTY, and Miss WARDEBERG.

Open to advanced graduate students only. Problems related to elementary and secondary education, curriculum, administrative procedures, and research will be discussed.

R.E. 299. EDUCATIONAL RESEARCH METHODS. Fall term. Credit one or two hours. One hour lecture, one hour discussion. (Student may elect only the one hour lecture with permission of his major adviser.) Recommended for Master's degree candidates. T Th 11. Members of the staff.

H.E. Ed. 437. ADULT EDUCATION. Fall term. Credit two or three hours. T 4-5:45, Van Rensselaer East Wing 5. For seniors and graduate students. Miss PATTERSON. (See page 42 for description.)

Consideration of basic educational research methods, problem selection, the research plan, selection of techniques and procedures, and the preparation of the research report.

R.E. 300. SPECIAL STUDIES. Credit as arranged. Members of the staff. Students working on theses or other research projects may register for this course.

The staff members concerned must be consulted before registration.

R.E. 400. INTERNSHIP IN EDUCATION. Fall and spring terms. Credit two to six hours as arranged. Members of the faculty.

Opportunity for apprentice or similar practical experience on the graduate level in administration, agricultural education, guidance, personnel administration, supervision, and other types of professional service in education.

[**Ed. 402. FIELD LABORATORY IN STUDENT PERSONNEL ADMINISTRATION.** Throughout the year. Prerequisite, consent of the instructor. Credit and hours to be arranged. Miss Cross.] Not given in 1962-1963.

H.E. Ed. 403. SPECIAL PROBLEMS FOR GRADUATE STUDENTS. Fall and spring terms. Credit and hours to be arranged. Department staff.

For graduate students recommended by their chairmen and approved by the instructor in charge for independent, advanced work.

H.E. Ed. 407. THESIS AND RESEARCH. Fall and spring terms. Credit and hours to be arranged. Registration with permission of the chairman of the graduate committee and the instructor. Miss BLACKWELL, Mrs. CARMICHAEL, Miss MOSER, Mrs. H. Y. NELSON, Misses PATTERSON and RHODES.

Ed. 499. INFORMAL STUDY IN EDUCATION. For students with majors in the endowed colleges. Maximum credit three hours each term. Members of the staff.

This privilege is granted to a qualified graduate student when approved by his adviser from the Education staff who is personally responsible for the study.

Ed. 500. SPECIAL STUDIES. Credit as arranged. For students with graduate majors in the endowed colleges. Members of the staff.

Students working on theses or other research projects may register. The staff members concerned must be consulted before registration.

GUIDANCE AND PERSONNEL ADMINISTRATION

Educ. 281. STUDENT PERSONNEL ADMINISTRATION. Fall term. Prerequisite, consent of the instructor. Credit two hours. Miss COSBY.

The functions and organization of personnel administration in higher education.

R.E. 282. EDUCATIONAL AND VOCATIONAL GUIDANCE. Fall term. Credit two hours. For graduate students only. T 4:15. Mr. NELSON.

Principles and practices of educational and vocational guidance. Historical and theoretical background of the guidance movement; educational, vocational, and community information needed; the study of the individual; group methods; counseling; placement and follow-up; and the organization, administration, and appraisal of guidance programs.

R.E. 283. COUNSELING. Spring term. Credit two hours. For graduate students only. Prerequisite, Courses 255 and 282 or their equivalents. M 4:15-6. Mr. NELSON.

Principles and techniques of counseling with individuals concerning various types of educational, vocational, and social adjustment problems. Case studies.

R.E. 284. GROUP TECHNIQUES IN GUIDANCE. Spring term. Credit two hours. T 4:15. Mr. NELSON.

Methods and materials for presenting educational and occupational information to students. Theory and practice of group guidance.

R.E. 285. OCCUPATIONAL AND EDUCATIONAL INFORMATION. Fall term. Credit four hours. Prerequisite, permission of the instructor. T Th 1. Field trips and laboratory on Monday afternoons. Mr. NELSON.

Survey and appraisal of occupations and training opportunities; study of sources of educational and vocational information; job analysis; vocational trends. Field trips to places of employment.

[R.E. 289. SUPERVISED PRACTICE IN TESTING AND COUNSELING. Spring term. Credit three hours. Prerequisites, 255, 283, 285, or their equivalents, and the permission of the instructor. For advanced graduate students only. Hours for observation and practice to be arranged. Mr. NELSON.] Not given in 1962-1963.

Ed. 381. SEMINAR IN STUDENT PERSONNEL ADMINISTRATION. Spring term. Prerequisite, consent of the instructor. Credit two hours. Miss COSBY.

HISTORY AND THEORY OF EDUCATION

R.E. 190. SOCIAL FOUNDATIONS OF EDUCATION. Either term. Credit three hours. Open to seniors, graduate students, and others by consent of instructor. Open only to students in approved education programs. Special graduate section in fall. Undergraduates are encouraged to so arrange their programs that this course follows the student teaching experience. Lecture M F 10. Discussion sections, W 9, 10, and 11. Messrs. ENNIS, GOWIN, and LOWE.

Consideration of the school as a social institution in a democracy. The role of schools, control of schools, and the professionalization of teaching will be examined in the light of our social class, economic, political, religious, community, and value structures.

R.E. 194. PRINCIPLES OF VOCATIONAL EDUCATION. Spring term. Credit two hours. Open to undergraduates only by special permission. Th 4:15. Mr. SMITH.

The meaning, purpose, and methodology of vocational education and its place in the total school program. Applicable for administrators, supervisors, teacher trainers, and teachers.

Ed. 244. PHILOSOPHY OF EDUCATION: A SYSTEMATIC APPROACH. Spring term. Credit three hours. Open to graduate students. W 7-9:30 p.m. Mr. HIXON.

A critical consideration of the several schools of educational philosophy which are generally recognized as significant influences upon present day education.

R.E. 271. THE LOGIC OF TEACHING. Fall term. Credit three hours. Open to graduates and advanced undergraduates. Consent of instructor required. M W 4-5:30. Mr. ENNIS.

A consideration of definition, explanation, proof, problem solving, and the structure of subject matter as they bear upon the work of the classroom teacher.

R.E. 276. THE CURRICULUM OF AMERICAN SCHOOLS. Fall term. Credit two or three hours. Enrollment limited to graduate students, teachers, and other specialists. M 4-6. Mr. STUTZ.

A consideration of major problems, principles, and techniques in determining the school curriculum. Relation of curriculum principles and trends to specific curriculum problems of concern to members of the class. Persons tak-

ing the course for three hours of credit are required to assume extra responsibilities.

Ed. 294. PHILOSOPHY OF EDUCATION: A HISTORICAL APPROACH. Fall term. Credit three hours. For graduate and undergraduate students. W 4-6 and one hour to be arranged. Miss PEARD.

The educational ideas of philosophers and teachers studied in their historical context.

R.E. 297. HISTORY OF EDUCATION IN THE MODERN PERIOD. Spring term. Credit three hours. For graduate students. Seniors by permission of instructor. M 4-6 and one hour to be arranged. Mr. STUTZ.

A survey of education from the beginning of the seventeenth century to the present, with emphasis on public education and on policies and problems.

JUNIOR HIGH SCHOOL PROGRAM

R.E. 190. SOCIAL FOUNDATIONS OF EDUCATION. Either term. Credit three hours. Lectures M F 10. Discussion sections, W 9, 10, and 11. (See page 38 for description.)

R.E. 216. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION. Fall term. Credit three hours. T Th F 9. Mr. MINK. (See page 34 for description.)

R.E. 391. JUNIOR HIGH SCHOOL EDUCATION. Fall and spring term. Credit three hours. M W 4-6. Mr. VARS. (See page 41 for description.)

R.E. 392. INTERNSHIP IN JUNIOR HIGH SCHOOL TEACHING. Fall or spring term. Credit six hours. Designed especially for interns in the Junior High School Project. R.E. 393 must be taken concurrently. Messrs. M. JOHNSON, VARS, LOWE, MINK, GEISELMANN, and M. BRUCE.

Full time directed teaching experience in a public school throughout the school's fall or spring semester.

R.E. 393. SEMINAR IN JUNIOR HIGH SCHOOL TEACHING. Fall or spring terms. Credit two hours. Hours and places to be arranged. Limited to interns in Junior High School Project. Messrs. M. JOHNSON, VARS, LOWE, MINK, GEISELMANN, and M. BRUCE.

Problems arising in the course of intern teaching will be discussed.

R.E. 394. SEMINAR IN JUNIOR HIGH SCHOOL EDUCATION. Spring term. Credit one hour. Prerequisite, R.E. 392 and 393. Open only to interns in Junior High School Project. Hours and place to be arranged. Mr. M. JOHNSON.

Review and analysis of teaching experiences and their implications for professional growth and improvement of educational programs at the junior high school level.

NATURE STUDY, SCIENCE EDUCATION, AND CONSERVATION EDUCATION

R.E. 107. THE TEACHING OF ELEMENTARY SCHOOL SCIENCE. Fall term. Credit three hours. Open to seniors and graduate students and juniors by permission. Lecture, W 2; practical exercises, W 3-5:00 and one other period to be arranged. Stone 7. Mr. ROCK-CASTLE.

The content and methods of elementary-school

science and nature study, with field work and laboratory experience useful in classroom and camp. Designed particularly for those who are preparing to teach or supervise elementary science or nature study.

R.E. 108. FIELD NATURAL HISTORY. Fall or spring term. Credit three hours. Open to

juniors, seniors, and graduate students, and to sophomores with instructor's permission. Limited to twenty students a section. Fall term, lecture, Th 10. Stone 7. Spring term, lecture, T 10. Weekly field trip and lecture, T or F 2-5:30, will begin with the first meeting. Friday section primarily for those experienced in field biology. Mr. FISCHER.

Devoted to studies of local plants and animals, their ecology and their relations to humans. Applications to teaching science and conservation are emphasized. May be taken either term or both terms.

[R.E. 109. *OUR PHYSICAL ENVIRONMENT*. Spring term. Credit three hours. Open to juniors, seniors and graduate students primarily interested in public school teaching. Mr. ROCKCASTLE.] Not given in 1962-1963.

A study of the commonplace machines and materials in our physical environment, and their effectiveness in demonstrating basic scientific principles. Frequent field trips and first-hand examination will be used in studying air, water, soil, light and sound, as well as some elementary mechanical and electrical devices. Emphasis will be placed on the physical environment as an aid to teaching the physical sciences in the public schools.

R.E. 128. *METHODS OF TEACHING SCIENCE IN SECONDARY SCHOOLS*. Fall or spring term. Credit three hours. Prerequisite, Educational Psychology 111 or the equivalent. For juniors, seniors, and graduate students. Th 2-5:30 and hours for observation to be arranged. Stone 7. Mr. JOHNSON and assistants.

A consideration of methods and materials useful in teaching science in secondary schools. Observation of the work of experienced teachers constitutes an important part of the course.

R.E. 129. *PRACTICE IN TEACHING SCIENCE IN SECONDARY SCHOOLS*. Fall or spring term. Credit six or twelve hours. Prerequisite, Rural Education 128 or 207 and permission of the instructor. For seniors and graduate students. Hours to be arranged. Stone 7. Mr. BRUCE and assistants.

Supervised practice in teaching science in secondary schools, with frequent conferences on teaching plans and problems.

R.E. 202. *NATURAL HISTORY LITERATURE*. Fall term. Credit two hours. Given in alternate years. Open to juniors, seniors, and graduate students interested in nature, science,

and conservation education. T Th 11. Stone 7. Mr. FISCHER.

A survey of writings in the nature, science, and conservation education fields, with special attention to outstanding writers and their works, designed for teaching and for leisure time reading.

R.E. 203. *NATURAL HISTORY WRITING*. Spring term. Credit two hours. Open to juniors, seniors, and graduate students interested in nature, science, and conservation education. T Th 11. Stone 7. Mr. FISCHER.

Designed to improve natural history, science, and conservation writings. Subject matter, sources of information, types of articles, use of illustrations, and outlets for students' articles are covered.

[R.E. 205. *THE TEACHING OF CONSERVATION*. Spring term. Credit two hours. Mr. FISCHER.] Not given in 1962-1963.

Consideration of the principles, materials, and methods of conservation education useful to teachers and others engaged in teaching wise use of the resources of the nation.

[R.E. 207. *THE TEACHING OF SCIENCE IN SECONDARY SCHOOLS*. Fall term. Credit three hours. Registration by permission only. Mr. JOHNSON and assistant.] Not given in 1962-1963.

A consideration of problems of selection and organization of subject matter, of choice and use of materials, and of methods of teaching sciences at the secondary school level. Observation and special problems are important aspects of this course.

[R.E. 209. *THE DEVELOPMENT OF NATURE AND SCIENCE EDUCATION IN THE UNITED STATES*. Fall term. Credit two hours. Messts. JOHNSON, ROCKCASTLE, and FISCHER.] Not given in 1962-1963.

Studies of the historical development of science teaching, the major personalities and their ideas, and current influences on science course content and methods of teaching.

R.E. 226. *RESEARCH IN NATURE STUDY, SCIENCE, AND CONSERVATION EDUCATION*. Fall or spring term. Credit one hour. Required of graduate students who major or minor in science education. M 4:30-6. Stone 7. Messts. JOHNSON, ROCKCASTLE, FISCHER, and BRUCE.

A seminar dealing with special problems.

SECONDARY EDUCATION

Educ. 130A. OBSERVATION AND STUDENT TEACHING. Fall or spring term. Credit six hours. Hours to be arranged. Mr. HIXON, Mrs. OCVIRK, Mrs. ERNSTEIN, Miss NEIGHBOUR, Mr. PFAFF.

For students preparing to teach English, languages, mathematics, or social studies in the secondary schools. (Prospective science teachers, see R.E. 129, page 40.) Opportunities to observe the work of experienced teachers and to do directed teaching in a secondary school are provided. Seminars and student teaching conferences arranged with emphasis on discussion of teaching problems. Students should also enroll in the appropriate special methods course which follows.

Educ. 130E. TEACHING ENGLISH IN SECONDARY SCHOOLS. Fall term. Credit four hours. T 4-6. Miss PEARD, and Mr. NOVARR.

Educ. 130L. TEACHING LANGUAGES IN SECONDARY SCHOOLS. Fall or spring term. Credit three hours. Hours to be arranged. (See staff in Educ. 130A.)

Educ. 130M. TEACHING MATHEMATICS IN SECONDARY SCHOOLS. Fall or spring term. Credit three hours. Hours to be arranged. (See staff in Educ. 130 A.)

Educ. 130S. TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS. Fall or spring term. Credit two or three hours. Two hours credit by consent of instructor. Hours to be arranged. Mr. LOWE.

(Prospective science teachers will take R.E. 128.)

R.E. 242. SECONDARY EDUCATION IN THE UNITED STATES. Fall term. Credit three hours. Limited to graduate students. Th 4-6 and one hour to be arranged. Mr. M. JOHNSON. Prerequisite, courses in educational psychology and social foundations of education, or permission of instructor.

Historical background and theoretical considerations relating to such major issues in

American secondary education as its purposes, control, scope, organization, standards, and relation to other levels. Prevalent and proposed practices analyzed with a view to reconciling the demands of intellectual integrity and the expanded expectations contemporary society places upon the secondary school.

R.E. 276. THE CURRICULUM OF AMERICAN SCHOOLS. Fall term. Credit two or three hours. Enrollment limited to graduate students, teachers, and other specialists. M 4-6. Mr. STUTZ. (See page 39 for description.)

R.E. 314. SEMINAR IN THE TEACHING OF SECONDARY MATHEMATICS. Spring term. Credit three hours. W 4-6 and one hour to be arranged. Mr. GEISELMANN.

Useful materials and practical methods for effective teaching of mathematics in the junior and senior high school. Attention will be given to research in mathematics education, and to recent proposals for curriculum revision. Special interests of the students will serve as a guide for the further selection of topics.

Educ. 315. THE TEACHING OF READING AND STUDY SKILLS IN THE SECONDARY SCHOOL. Spring term. Credit two hours. Th 2-3:40. Mr. PAUK.

For all teachers, administrators, and supervisors. The psychology, philosophy, and pertinent research in developmental reading will be explored. Practical teaching methods and sample materials for classroom use will be demonstrated and discussed.

R.E. 391. JUNIOR HIGH SCHOOL EDUCATION. Fall and spring terms. Credit three hours. M W 4-6. Mr. VARS.

Examines educational programs for young adolescents in the light of the history, status, and philosophy of the junior high school. Includes guidance, articulation, exploration, general education programs such as block-time and core, and such recent developments as auto-instruction and team teaching.

HOME ECONOMICS EDUCATION

H.E. Ed. 300. SPECIAL PROBLEMS FOR UNDERGRADUATE STUDENTS. Fall and spring terms. Credit and hours to be arranged. Department staff.

For students recommended by counselors and approved by the head of the department and the instructor in charge for independent, advanced work not otherwise provided in the

department or for special arrangement of course work necessitated because of previous training. The signatures of professor concerned and of the head of the department are required at preregistration.

H.E. Ed. 310. *THE HOME ECONOMIST AS A TEACHER.* Fall term. Credit two hours. T Th 11. Van Rensselaer East Wing 5. Open to upperclassmen and graduate students. Miss RHODES.

Designed for students who plan to be extension agents, dietitians, social workers, or home service representatives, or to undertake other work which will involve teaching in a non-school situation. Consideration will be given to social-psychological factors affecting the teaching-learning process, approach to different age and ability levels, use of appropriate media for different purposes, and various instructional techniques applicable to informal groups. Opportunity will be given for observation of informal education programs and for individual presentations by students in class.

H.E. Ed. 300-331. *THE ART OF TEACHING.* To be taken in two successive terms. Open to juniors and seniors preparing to teach home economics in the public schools. Miss MOSER, coordinator, assisted by Mrs. CARMICHAEL, Mrs. NELSON, Miss PATTERSON, Mrs. CORNELIUS, Miss ELLIOTT, and cooperating teachers.

Students have an opportunity to study the community and the place of home economics in the total educational program of the community. Observation and participation in community activities, in the total school program, and in the home economics program. It is recommended that students use public transportation in traveling to and from the student teaching centers.

330. Fall and spring terms. Credit two hours. Permission of instructor required. This course must precede Home Economics Education 331. Discussion period. T Th 8. Van Rensselaer East Wing 5. Field work is required one-half day a week for the purpose of visiting home-making programs in cooperating schools.

331. Fall and spring terms. Credit eight hours. To be taken in the senior year. Directed teaching for one-half of the term and general conferences throughout the term. W 10-12, 1:15-3, with additional meetings scheduled on adult education. Van Rensselaer East Wing 5.

Students live in the Home Management Apartments for one-half of the term and in the communities in which they teach for the other half. Students are assigned to cooperating schools within a reasonable distance of Ithaca. They live in the communities and work under the guidance of the local home-making teachers and under the supervision of the Home Economics Education staff.

H.E. Ed. 403. *SPECIAL PROBLEMS FOR GRADUATE STUDENTS.* Fall and spring terms. Credit and hours to be arranged. Department staff.

For graduate students recommended by their chairmen and approved by the instructor in charge for independent advanced work.

H.E. Ed. 407. *THESIS AND RESEARCH.* Fall and spring terms. Credit and hours to be arranged. Registration with permission of the chairman of the graduate committee and the instructor. Misses BLACKWELL, MOSER, PATTERSON, and RHODES, and Mrs. CARMICHAEL and Mrs. NELSON.

H.E. Ed. 437. *ADULT EDUCATION.* Fall term. Credit two or three hours. T 4-5:45. Van Rensselaer East Wing 5. For graduate students. Seniors admitted by permission of the instructor. Miss PATTERSON.

An introductory course planned for teachers, administrators, directors of adult education, extension agents, parent educators, and others. Focused on educational needs, program planning suited to adult learners, choosing teaching procedures and materials for adults, promotion of programs; philosophy and evaluation in adult education. A wide variety of adult education activities in the Ithaca area provide opportunity for students to observe the application of principles to local programs. Students taking the third credit either observe or assist in teaching adults in local programs, or choose some other suitable problem.

[**H.E. Ed. 438. *SEMINAR IN ADULT HOME ECONOMICS EDUCATION.*** Spring term. Credit two hours. Miss PATTERSON.] Not given in 1962-1963. Will be offered in 1963-1964.

Planned for students specializing in adult education. It usually follows Home Economics Education 437; however, experienced students may register by permission of the instructor without 437. Attention is given to various aspects of organizing and conducting adult programs. Special interests of the students will serve as a guide in the choice of topics and

of the relative emphasis to be placed on methods and materials for teaching adults, research in adult education, evaluation of instruction, or supervision of programs.

H.E. Ed. 439. THE TEACHING OF HOME ECONOMICS. Spring term. Credit three hours. T Th 10 and other hours to be arranged. Van Rensselaer East Wing 5. Miss PATTERSON.

Designed for students with teaching experience or preparing to teach in college, extension, secondary schools, and adult programs. Attention is given to the principles of teaching and to the use of such teaching procedures as discussion, demonstration, laboratory, trips, and use of radio, films, and recordings in teaching home economics. Opportunity is provided for observing teaching and for experimentation with different teaching aids and procedures.

H.E. Ed. 449. CURRICULUM PLANNING IN HOME ECONOMICS. Spring term. Credit two to three hours. W F 9. Van Rensselaer East Wing 5. Miss RHODES.

For high school and college teachers, administrators, and extension personnel. Attention is given to the social-cultural foundations of the home economics curriculum, social-psychological needs of learners, the influence of educational philosophy on curriculum planning, and curriculum planning for different age and ability levels.

Opportunity is given for students to relate curriculum principles to individual situations.

H.E. Ed. 458. EVALUATION. Fall term. Credit three hours. M Th 1-2:30. Van Rensselaer East Wing 5. Mrs. NELSON.

For high school and college teachers, administrators, extension agents, and educational research workers. Students without experience in any of these professional positions are admitted by permission of instructor. Basic principles of evaluation will be studied in relation to specific methods of appraising educational programs or individual achievement. Opportunities will be given for constructing and using evaluation instruments.

H.E. Ed. 460. SEMINAR IN EVALUATION. Spring term. Credit two hours. Prerequisites, H.E. Ed. 459 and R.E. 253 or equivalent. Th 2-4. Van Rensselaer East Wing 5. Miss BLACKWELL.

Opportunity for intensive study of the literature concerning educational evaluation, for refinement of appraisal techniques, and for analysis and interpretation of data from current research.

H.E. Ed. 461-462. THE TEACHER EDUCATOR IN HOME ECONOMICS. For graduate students preparing for teacher education positions involving supervision of student teachers. Permission of the instructors is required. Previous experience in teaching homemaking at the secondary level is required for H.E. Ed. 462.

461. Fall term. Credit three hours. F 1:30-3. Van Rensselaer East Wing 5. Observation and participation, T Th 8 and several half-day field-trips. Mrs. NELSON.

Opportunity is provided for students to develop understanding of teacher education practices by observing and participating in H.E. Ed. 330. Participation involves teaching one or two lessons and individual work with students. Additional experiences include observation of student teachers and of supervisory conferences in student teaching center.

462. Spring term. Credit four hours. Hours to be arranged. Van Rensselaer East Wing 5. Observation and participation, W 10-12, 1-3, and weekly half-day or full-day field trips for half the semester. Miss MOSER and Mrs. NELSON.

Seminar is concerned with basic principles of supervision and their application to the preservice education of home economics teachers. Opportunity is provided for observation and participation in H.E. Ed. 331, including some teaching in the course and the supervision of a student teacher.

H.E. Ed. 463. INTERNSHIP AND FIELD WORK IN TEACHER EDUCATION. Fall term. Credit two hours. Hours to be arranged. Van Rensselaer East Wing 5. Miss MOSER and Mrs. NELSON.

First eight weeks of semester: supervise one student teacher. Second eight weeks of semester: supervise two student teachers. Conference with college supervisor one hour each week and conferences as needed with cooperating teachers in the public schools. Provision will be made for a follow-up visit to a first year teacher.

H.E. Ed. 469. ADMINISTRATION AND SUPERVISION IN HOME ECONOMICS. Spring term. Credit three hours. M W F 9. Van Rensselaer East Wing 5. Miss RHODES.

Some principles of administration and supervision and their application to leadership positions in home economics education. Opportunity is provided for directed observation

44 SCHOOL OF EDUCATION

related to the student's area of special interest; e.g., administration of college programs, supervision of state and city public school programs, supervision of cooperative extension programs. Estimated cost of transportation to visit programs, \$15.

[H.E. Ed. 475. *READINGS IN EDUCATION*. Spring term. Credit two hours. Miss PATTERSON.] Not given in 1962-1963. Will be offered in 1963-1964.

Open to all graduate students interested in a critical analysis of current literature in the field of education and the consideration of major issues. Students are expected to read widely, and to prepare and present an analysis of various current issues.

H.E. Ed. 480. *SEMINAR IN HOME ECONOMICS EDUCATION*. Fall and spring terms. No credit. M 4. Van Rensselaer East Wing 5. Fall, Miss RHODES, coordinator; spring, Department staff.

An informal seminar planned for majors and minors in home economics education and for

others who are interested. One major aspect of education will be considered each semester.

[H.E. Ed. 490. *TEACHING HOME ECONOMICS IN HIGHER EDUCATION*. Fall term. Credit two hours. Miss PATTERSON.] Not given in 1962-1963. Will be offered in 1963-1964.

For students interested in preparing to teach in colleges, junior colleges, or institutes. Opportunities are provided for students to observe and analyze the teaching of college classes.

Application of the principles of teaching to aspects of home economics to be taught, for example, food and nutrition, housing, textiles and clothing, family relations, or management. Deals with (a) the contributions of home economics at the college level, (b) the philosophy involved in cooperatively planned programs, (c) the characteristics of college-age youth, (d) factors affecting student learning; (e) principles influencing the choice of teaching procedures and materials for college teaching, (f) the educative values of group teaching, and (g) evaluation of teaching.

THE DEVELOPMENT OF HUMAN RESOURCES

ILR 430. *TECHNIQUES AND THEORIES OF TRAINING IN ORGANIZATIONS*. Credit three hours. Spring term.

Deals with the methods used, formally and informally, by organizations for training personnel at all levels. These methods will be compared with relevant psychological formulations of the problem of learning. The place of practice, understanding, and motivation in the acquisition of motor and other skills; the use of case and incident method; learning techniques in a group setting (discussion and role playing); learning during performance appraisals; learning as a result of identification. Various teaching methods will be practiced.

ILR 431. *DESIGN AND ADMINISTRATION OF TRAINING PROGRAMS*. Credit three hours. Fall term.

Study of the role and function of organizational training. Consideration will be given to the planning and philosophy of programs used by organizations to develop the skill, understanding, and attitudes of the work force.

ILR 530. *PUBLIC POLICY AND DEVELOPMENT OF HUMAN RESOURCES*. Fall term.

Analysis of the need for development of human resources, trends in work force requirements and implications for public policy, the

role of government and of educational institutions in providing development programs, and the effectiveness of such programs. Attention to the rationale, organization, and administration of specific programs such as apprenticeship, vocational and technical schools, technical institutes, university programs for development of technical, scientific, and managerial skills, and the foreign technical assistance program. Implications and problems of public support for the development of human resources.

ILR 531. *MANAGEMENT AND LEADERSHIP DEVELOPMENT*. Fall term.

Study of the factors affecting the growth and development of managers and leaders in industrial and other organizations. Consideration is given to the organizational environment, formal and informal developmental programs, leadership theory, and individual attitudes and beliefs. Special emphasis is given to analysis of specific case studies of actual practice.

ILR 630. *CURRENT ISSUES AND RESEARCH IN HUMAN RESOURCES DEVELOPMENT*. Fall term.

A graduate seminar centering on selected issues and relevant research involved in the development of managerial and work force

skills (particular emphasis for the seminar to be determined with the seminar group). Seminar papers and class discussions might concentrate on such topics as management de-

velopment, impact of technological change on training programs, development of scientific and professional personnel, or labor union education.

INTERDEPARTMENTAL COURSES

Soc. 401. STRUCTURE AND FUNCTIONING OF AMERICAN SOCIETY—I. Fall term. Credit three hours. Prerequisite, Sociology and Anthropology 101 or consent of instructor. T Th S 9. Mr. WILLIAMS

Systematic analysis of the major institutions of kinship, stratification, economic activity, political structure, education, and religion. Special attention is given to values and their interrelations in the modern social order. Includes a survey of the more important types of groups and associations making up a pluralistic nation.

Soc. 402. STRUCTURE AND FUNCTIONING OF AMERICAN SOCIETY—II. Spring term. Credit three hours. Prerequisite, Sociology and Anthropology 401 or consent of instructor. T Th S 9. Mr. WILLIAMS.

Primary attention is directed to the study of interrelations of institutions, including analysis of the regulation of economic and political systems. Group cooperation and conflict are surveyed. Analysis of important processes of change in institutions, values, and social organization.

The Nature of Man. This is a group of three interdepartmental courses dealing with the general topic of the nature of man from the perspectives of the biological and behavioral sciences with particular reference to the determinants of human structure, function, and development. The courses may be taken singly or in any order.

THE NATURE OF MAN: STRUCTURE AND DEVELOPMENT (Zoology 201). Fall. Credit three hours. Not open to freshmen. Prerequisite, a laboratory science, preferably

zoology or biology. Mr. — and assistants. Lectures, T Th 10; recitations, T 8, 9, 11, W 8, 9, 10, 11, Th 8, 9, 11, or F 8, 9, 10, 11.

The aim is to give the student an understanding of the structure, function, and development of the human body.

THE NATURE OF MAN: THE DEVELOPMENT OF HUMAN BEHAVIOR. (Child Development and Family Relationships 115). Fall. Credit three hours. Mr. BRONFENBRENNER. T Th S 10.

The aim is to contribute to the beginning student's knowledge and understanding of human beings through a study of their development from infancy to adulthood. Attention is focused on the role of biological factors, interpersonal relationships, social structure, and cultural values in changing behavior and shaping the individual. Special emphasis is given to the practical and social implications of existing knowledge.

THE NATURE OF MAN: CULTURE AND PERSONALITY. (Sociology-Anthropology 204). Spring. Credit three hours. Prerequisite, one of the following: Zoology 201 (or equivalent), a course in psychology (preferably Child Development and Family Relationships 115), sociology and anthropology, or child development and family relationships, or consent of the instructors. M W F 10. Messrs. LAMBERT and OPLER.

The study of the individual in his society, emphasizing the relationship between social structure, cultural context, and human behavior. Attention is given largely to the study of personality, "normal" and "abnormal," in non-Western societies.

INDEX

- Academic subjects, teachers of, 9
- Admission, graduate, 13
- Admission, undergraduate, 8
- Advisers, 9
- Agriculture, teachers of, 11
- Apprentice teaching, 9
- Approved fields for majors, 14
- Assistantships, 24
- Calendar, *Inside Front Cover*
- Certification, permanent, 10
- Certification, provisional, 10
- Courses of instruction, 32-45
 - Administration and Supervision, 32
 - Agricultural Education, 33
 - Development of Human Resources, 44
 - Educational Psychology, 34
 - Elementary Education, 35
 - Extension, Adult, and Higher Education, 36
 - General, 37
 - Guidance and Personnel Administration, 38
 - History and Theory of Education, 38
 - Home Economics Education, 41
 - Interdepartmental Courses, 45
 - Junior High School Program, 39
 - Nature Study, Science Education, and Conservation Education, 39
 - Secondary Education, 41
- Directed Field Study, 20
- Doctor of Education degree, 19
- Educational Administration, 27
- Educational Placement Bureau, 26
- Elementary school teachers, 26
- Entrance examinations, 15
- Extension workers in home economics, 11
- Extramural courses, 28
- Faculty, 4
- Fees, 22
- Fellowships and scholarships, 25
- Fields of study, 14
- Field Services, Office of, 28
- General degrees, 14
- Home economics, teachers of, 11
- Housing for students, 7
- Junior High School Program, 29
- Late registration fee, 16
- Majors and minors, approved fields for, 14
- Master of Arts for Teachers degree, 18
- Master of Education degree, 16
- Noncandidates, 13
- Nonresident fee, 23
- Off-campus courses, 28
- Part-time study, 28
- Placement, 26
- Permanent certification, 10
- Professional degrees, 15
- Provisional candidacy, 13
- Provisional certification, 10, 11
- Qualifying examination, 21
- Registration, 16
 - Candidate for degree only, 23
 - Late, fee for, 16
 - Professional degrees, 16
 - Summer Session, 29
- Residence and residence credit:
 - Continuity of, 16
 - Earned extramurally, 28
 - Graduate assistants, 23
 - Method of earning, 16
 - Noncandidates, 13
 - Transfer of, from other institutions, 20
 - Transfer of, for provisional candidates, 13
- Secondary school teachers, 9, 11, 27
- Southern Tier School Board Institute, 30
- Special committees, 17, 18, 19
- Summer experience, home economics, 12
- Summer Session, 30
- Testing Service, 31
- Thesis fee, 23
- Tuition, 22
 - Exemption from, 23
 - Refund of, 16
 - Waiver of, 22
- University Testing and Service Bureau, 31
- Visiting Fellows, 22